

Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 1

JANUARY 1995

ISSN 0884-599

It's Renewal Time

The NPSO membership year is January to December.

NPSO brings you field trips, programs, classes, the monthly Bulletin and the annual Kalmiopsis. Your membership donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

State News

Jan. 28, Sat.

State Board Meeting: 10 A.M. in Eugene, at Lane Community College. Directions: From I-5, just south of Eugene, exit to L.C.C. and 30th Ave. If northbound, turn left on 30th, southbound turn right. Go 1/4 mi. to Eldon Shafer Blvd., turn left, go up hill past parking lot and building, turn right into lot above building. Go downstairs to south side of building, and enter room 109.

June 16-18
Fri.-Sun.

Annual Meeting: Hosted by the Portland Chapter at Brightwood, near Mt. Hood. Fri. evening: a short program. Sat.: Field trips and annual banquet. Sun.: State Board meeting. Lodging: on your own in motels and campgrounds. Registration forms, field trip details and a list of motels and campgrounds will be in March Bulletin.

Chapter News

Blue Mountain

Jan. 9, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Katherine Skirvin will present a program on the plants of Magoon Lake.

Corvallis

Jan. 9, Mon.

Meeting: 7:30 P.M., in room 2087, Cordley Hall, OSU campus. Wes Messinger presents "Thirty degrees north latitude: winter botany at the U.S. southern boundary."

Emerald

- Jan. 14, Sat. **Field Trip:** 11 A.M. to 1 P.M. Winter twigs at Mt. Pisgah Arboretum, with Dr. Rhoda Love, trip leader. Meet at the Arboretum visitors' center. A small donation to the Arboretum (\$3 is suggested) is expected. Participants will be provided with a winter twig key. Take hand lens, pocket knife and sack lunch. Questions? Call Rhoda at 345-6241.
- Jan. 23, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Sedges have edges...Barbara Wilson, *Carex* Queen, will give a 3-part talk with slides: *Carex* 101; the role of *carex* in the Willamette Valley prairie; and the role of the *Carex* Working Group in the Pacific Northwest.

High Desert

- Jan. 24, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Reid Schuller will present a program on the national parks of Australia.
- Feb. 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. The fire history of the Metolius and Black Butte area will be presented by Dr. Robert Sherman.
- March 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW. Kansas, Bend. Slide show night. Bring your favorites to show fellow members.
- April 25, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Linda Rexroat, Range Ecologist, The Nature Conservancy, will discuss restoration ecology at Sycan Marsh.

Mid-Columbia

- Jan. 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Jerry Igo presents a new video, four years in the making, on the fruits of northwestern shrubs and herbs, mostly edible. "Berried Treasure" is its title.
- Feb. 1, Wed. **Meeting:** 7:30 P.M. at the Mosier School. Sally Claggett, a botanist with the Gifford Pinchot, will talk about "Likin' Lichens."

North Coast

- Jan. 14, Sat. **Field Trip:** Winter botany at Kilchis Park, led by Dave Wells. Hike through old growth along river. Moderate hiking along sometimes steep, slippery trail. Take hand lens. Meet at Tillamook PUD, 10 A.M., or Kilchis Park, 10:30 A.M. Call Jim Winslow, 842-4131, for information.
- Jan. 31, Tues. **Meeting:** 7 P.M. at Nehalem Bay Center of TBCC, room 5, 36155 9th St., Nehalem. Review of Chapter's slide programs on native plants, and landscaping with native plants. Call Christine Stanley, 436-0161, for information.

Portland

- Jan. 10, Tues. **Meeting:** 7 P.M., First Methodist Church, 1838 SW Jefferson St., Portland. Russ

Jolley will give us a short introduction to the lichens. Following this members will show ten slides of their choice. The meeting room opens at 6:30 for socializing.

Jan. 24, Tues.

Field Trip Planning: Meet at Elizabeth and John King's, 3320 SW 100th Ave., Portland. Call 292-6539 for directions. Take trail guides, trip descriptions, plant lists, forest maps and 1995 calendar. If you like to go on field trips, please come. Even if you don't want to be a leader, we need your input. You needn't have memorized Hitchcock or Jolley to lead. We want plenty of beginner trips too.

Course: The Portland Chapter will team up with Leach Botanical Gardens to offer a course on **native plant propagation and landscaping**. We will enlist the help of landscape architects, nursery owners, and native plant gardeners, many of whom were founders of Cascadia, a native plant landscape association. The course will meet three Saturday mornings at Leach, and several days TBA for urban field trips. Cost of the course is \$7.50 per indoor session for NPSO and LBG members, \$10 for non-members, OR \$20 for members, \$25 non-members for the course. Considering the quality of the instructors, this is a real bargain. Topics below are quite preliminary and subject to change. A final syllabus will be available at the January meeting. Register by calling Leach, at 761-9503.

Sat. Jan. 21, 9 A.M. to Noon. Leach Botanical Gardens, 6704 SE 122nd.

Site preparation, soils, design.

Sat. Feb. 4, 9 A.M. to Noon. Leach Botanical Gardens. Plant selection/propagation, communities, succession, germinating seeds, making divisions, starting cuttings.

Sat. Feb. 11, 9 A.M. to Noon. Leach Botanical Gardens.

Water, irrigation, ponds, streams, wetlands.

Fri., Sat, Sun. Feb. 24-26. PSU. National Wildlife Society Conference: "Home Is Where the Habitat Is." Several conference workshops will tie in with our study sessions.

Sun. March 26, 9 A.M. to 5 P.M. Field trip to Clackamas Community College landscapes and Bosky Dell led by Richard Marx. Meet at ODOT, NE 60th and Glisan. Take lunch, rain gear and warm clothes.

Other course-related field trips will be scheduled for February and March. This course is intended to tie in with the efforts of other local groups promoting native plants in the urban area, such as Metro Parks and Greenspaces, City of Portland, Friends of Forest Park, Portland Audubon Society, Urban Streams Council, The Wetlands Conservancy, Friends of the Trees and No Ivy League. A discussion of how we can pool efforts to reclaim more urban habitat for native plants will be part of the course.

Siskiyou

Jan. 19, Thurs.

Meeting: 7:30 P.M., room 171, Science Building, SOSC, Ashland. "The Botany of Tropic Baja," by Peter Zika.

South Coast

Call Paul Bakke, 439-7234, for information on activities.

Umpqua Valley

Jan. 12, Thurs.

Meeting: 7 P.M., room 310, Douglas County Courthouse. Jerry Mires and Ted Schattenkerk, from BLM, will present a program on the Dunning Ranch exchange, plans for the ranch and its plants and animals. Call Ted Schattenkerk, 679-6953, for information.

Willamette Valley

Jan. 16, Mon. **Meeting:** 7 P.M., United Methodist Church, 600 State St. NE, Salem. Members are invited to bring their own favorite slides.

Wm. Cusick

Jan. 18, Wed. **Meeting:** 7 P.M. La Grande Forest Sciences Lab., Gekeler and C Aves., La Grande. A workshop to develop the Gangloss Park nature trail. Call Bob Ottersberg, 963-6043, for information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook."

For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

President's Column

First of all, I hope everybody had a safe and happy holiday season. Now we can look forward to the upcoming year. A major concern for members of native plant societies is the Re-authorization of Endangered Species Act in Congress. There is already talk of "watering" the law down, and as our illustrious Senator Packwood exclaimed, "...consider the possibility that a species will disappear." During a time when biodiversity is decreasing at an alarming rate, this kind of mentality is scary. It is incomprehensible that any species should become extinct through human negligence.

Coincidentally, the Northwest Regional Office of the Endangered Species Coalition is sponsoring a regional conference in Seattle at the Mountaineers Club, on January 21 and 22. NPSO is helping to co-sponsor the workshop and I encourage interested members to attend. (See accompanying article for more information.)

Oregon's Department of Agriculture is proposing changes and additions to the Oregon Administrative Rules for the conservation of threatened and endangered plant species in the state. The deadline for comments has passed, but public meetings will soon be held, and I encourage NPSO members to attend. If you would like information on the rules, let me know and I will get you a copy.

I attended a meeting in November at the ONRC, to discuss the possibility of bringing up the mining initiative again in 1996. The group felt that some more funding to get some television time would be beneficial to the campaign. I expressed the hope that NPSO would help support the measure.

Again, I want to remind members of the symposium on Oregon's native flora, to be held at the LaSells Stewart Center in Corvallis, on November 15-17, 1995.

Let us hope for a great flower year, and in the next few weeks my crocuses should be flowering.

Bruce Rittenhouse
NPSO President

Endangered Species Workshop

The newly formed Northwest Regional Office of the Endangered Species Coalition, along with the Mountaineers, Washington Audubon and others (including the Native Plant Society of Oregon) is co-hosting a conference titled "Re-authorizing the ESA -- Mobilizing for Action," at the Mountaineers Club in Seattle (300 3rd Ave. W, near the Space Needle) on January 21 and 22. The Endangered Species Coalition is an alliance of over 145 organizations dedicated to strengthening the ESA.

At this conference, local, state and national environmental leaders will facilitate workshops on the nuts and bolts of the ESA, current legislation to amend the Act, "takings," and countering the rhetoric of the "wise-use movement," as well as holding training sessions on the skills of grassroots organizing, lobbying and media outreach.

NPSO is co-sponsoring this conference, and the fee to attend is \$30. If you have any questions or are interested in attending, call Becky Dinwoodie at 206-623-2734.

Bruce Rittenhouse

[See the article on this subject in the December, 1994 Bulletin -- Ed.]

Environmental Lobby Days

The Oregon Conservation Network, which includes NPSO in its ranks, will be holding three LOBBY DAYS in Salem during the 1995 session. Please mark the dates on your calendar, and arrange to get off work and to carpool, so you can be there. We will need a lot of voices, so we can hold onto the legislation we have that protects our native plant habitats. The dates are February 14 and April 24, 10 A.M. to 4 P.M. There will be briefings, before the legislative visits, at the First Methodist Church, Church and State Streets, Salem. The third date will be set later in the session.

Mary Vogel
Portland Chapter
503-645-1992

Summer Intern Reports

Following is the third in a series of five articles in which NPSO conservation biology interns discuss their activities during the 1994 field season. Interns were selected from a pool of about 30 applicants, and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program in carrying out research related to threatened and endangered species in the northwest. Project locations ranged from Hell's Canyon to vacant lots in Klamath Falls, and for one participant included a molecular systematics laboratory at OSU. Interns were jointly funded by NPSO, state, and federal dollars and plant to use their experiences in furthering their careers in botany. Thanks again to NPSO for contributing to botanical education.

Bob Meinke
Program Leader

Down by the Seashore: The Pink Sandverbena

Chances are most of you have not had the good fortune of seeing our native coastal pink sandverbena, *Abronia umbellata* ssp. *breviflora*. I spent a good part of the summer crawling on my hands and knees getting to know this plant intimately as an intern with the Oregon Department of Agriculture (ODA) and the Native Plant Society of Oregon. During my internship, I became familiar with the propagation, restoration and monitoring techniques used by ODA botanists in studying this plant.

Abronia umbellata hugs the sand's surface, sending out long shoots which develop beautiful umbrella-shaped clusters of pink flowers. A member of the four o'clock family (*Nyctaginaceae*), pink sandverbena is the less common of the two coastal *Abronia* that grow on Oregon's beaches. Since the introduction of European beach grass (*Ammophila arenaria*), the role of which was to stabilize dunes, *A. umbellata* has been declining and is now listed as a state endangered species. At present, there are three known populations remaining in Oregon.

The largest population is located at Port Orford, where the Army Corps of Engineers and ODA have worked together on efforts to re-introduce

Abronia. In 1992 the Corps deposited dredged harbor sand on the beach, as part of their continuing efforts at keeping Port Orford's channel free for shipping. ODA arranged for this load of sand to be put to good use, directing the Corps to place the material on a pre-arranged plot, thereby smothering the encroaching European beach grass. The ODA subsequently began experimental work that focussed on the biology of pink sandverbena, including attempts to establish a new population on the open expanse of harbor sand.

My experience with this native beauty began in Port Orford in June, 1994. On arriving at the beach site, I was amazed at how well the experimental population started in 1992 was faring. My eyes were dazzled by the pink islands of vegetation surrounded on all sides by dense beach grass. At each plot we gathered data on plant size and number of seedlings. After completing demographic data collection at the Port, we headed to a beach south of Humbug Mountain where plants had been established by the ODA the previous year. Unfortunately, burial by sand had wiped out the majority of these transplants. Those that survived sported two to three leaves, but something had been snacking on them.

After experiencing a little disappointment, we headed to a site on the same stretch of beach which is leased by The Nature Conservancy (TNC). As the wind howled and blasted us with sand, we pulled the exotic beach grass that was locally dominant and piled it away from the site. Our task then was to transplant a few dozen greenhouse-propagated *Abronia* seedlings and water deeply. Before leaving, I encouraged the plants with a few inspiring words in the hope of helping them settle into their new homes and COLONIZE!

On our way back to Corvallis we made one more stop at a Bureau of Land Management (BLM) transplant site near Fourmile Creek. Fortunately, this location was free from European beach grass and full of botanical mysteries. Here I identified my first coastal phacelia (*Phacelia argentea*), globe gilia (*Gilia capitata* ssp. *capitata*) and beach evening primrose (*Camissonia cheiranthifolia*). This site was different from the others in that it was about a mile inland and more botanically diverse. We carefully selected six plot locations, transplanted the seedlings, and then watered.

We returned to these sites in the middle of August. One of the best things about this plant is its

habitat; nothing could be finer than working on the coast for a few weeks. The weather was incredible, with light winds and sunshine from sunup to sundown. Unfortunately for the transplants, very little rain had fallen since June. The hundreds of seedlings that had been present at the Port Orford location were now down to a handful. Thankfully, the established plants continued to bloom and produced seed throughout the summer. We were disappointed on revisiting the TNC and BLM sites; transplant mortality was approximately 50 percent.

Tom Kaye, an ODA botanist, led the last expedition of my internship. Arrangements were made to re-introduce pink sandverbena at several natural sites from Coos Bay to Tillamook. By mid-morning Monday, the cargo van was packed full of the remaining greenhouse seedlings and we headed west to the seashore. The next morning we met Estella Morgan of the BLM who took us on the ride of my life. In order to get to the North Spit of Coos Bay, a few miles of sand dune driving was necessary. With our precious cargo tucked tightly into a 4-WD Blazer, we spun, bounced, slid, wobbled and hung on. Within the hour we arrived safely at an area which recently had been cleared of European beach grass. Living up to its reputation, however, it was resurrecting itself from its persistent rhizomes. I felt great pleasure yanking their snaking roots out of our new plot, but I expect the plant will re-appear, eventually. As I hopped into the cargo van, I felt a sense of leaving a child behind without protection, but also a sense of accomplishment and anticipation.

After picking up a gate key from the sheriff's office, we proceeded into the Bay Ocean Peninsula. The spit can be seen as you pass through Garibaldi, with Tillamook Bay and the ocean creating a peninsula with dynamic topography. Many different microhabitats were found on the spit. After some discussion, we finally chose three sites which differed greatly from one another. Our first was literally on the sea's doorstep, just at the point where the beach grass starts to grow, but not within the grassy clumps. Our second site, further back from the shore, was nestled in hummocks and swales. The final transfer site was surrounded by swales which had created a basin of sorts. During this final day, our energies were expended in hauling 60 pots, and gallons of water. Many questions arose in our minds while we were driving home in the empty van; how will the plants fare, how will they grow, will they succeed? Thinking back over the course of the last few months, I am amazed by how easily we can lose major popula-

tions of organisms and how difficult the task of restoring them can be.

I look forward to monitoring the status of this project. Re-introduction of the pink sandverbena requires cooperation among different organizations and agencies, and most importantly, among people. It proved to me that working together as a team can bring change, not just gridlock. Who knows, maybe some day we can all witness these beautiful pink islands in the sand.

Thanks to all who made this a memorable summer, including Bob Meinke, Jack Greenlee, Tome Kaye, and all the 1994 crew members participating in conservation and restoration projects sponsored by NPSO and ODA.

Crista Chadwick

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Tundra plants often have a world-wide distribution in arctic and alpine areas. For example, *Phleum alpinum*, alpine timothy, is found in Oregon, New Hampshire and Norway. Can you name two more native Oregon plants found in those three places?

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330

Joy Mastrogiuseppe, of Moscow, Idaho, was the first to solve the December puzzle, with an answer of *Carex buxbaumii*, *C. californica*, *C. limosa* and *C. livida*.

We Welcome New Members Who Joined From 9/16/94 to 11/20/94

Blue Mountain Birgitta Lamb

Corvallis
Ginger M. Craig
Warren G. Ferris
John Neiger and Kemper Carlsen
Denise Ross

Emerald
Kim Alexander
Geoffrey M. Carter
Carl and Charlotte Collier
Craig Dremann
Mike Kinyon
Bob Lemon
Beverly Pocock
Lynn Rosentrater

High Desert
Audrey N. Hunt
Beth Vining

North Coast
Rebecca Dirschel
Deborah Dyson
Jo Goodman

Portland
Diane Bauer
Doug Beebe
Molly Brady
Randy Dana-Frigault
Steve Hinton
Ann Hughes
Virginia Maffitt
Yukiko Maeda Tanaka

Siskiyou
Audrey Anderson
Nancy Menken
Homer Millard
Linda M. Mullens

Willamette Valley
Kelly Amsberry
Marion M. Bishop
Shannon L. Datwyler
Randi Embree
Angela Lucas

Members at Large
Nancy Cole
Julia Linfoot
Sean O'Grady

Tree Seminar Announced

Dr. Alex L. Shigo, formerly a plant pathologist with the U.S. Forest Service, and now in private practice, and author of "A New Tree Biology" and "Modern Arboriculture," will present a two-day seminar in Vancouver, British Columbia on the basic science of trees and their treatments. Called "Digging Deeper for Better Solutions," the seminar will explain the basic biology and chemistry of the living tree system, including how it is affected by pesticides, herbicides and fertilizers, wood anatomy, how roots work, and how trees are affected by pruning. Practical solutions of the most common problems of growing and maintaining trees will be discussed.

This seminar is intended for arborists, horticulturists, nursery professionals, landscape architects, golf course superintendents, and anyone else interested in trees.

Each day of the seminar may be taken separately. The cost is \$98 per day, or \$176 for both (US); \$134 per day, or \$241 for both (Canadian). The place is the Vancouver Convention Center, and the dates are March 9th and 10th, 1995.

To register, or to get more information, Call John Kirkland, at 503-254-0482, or write to: John Kirkland, Tree Care Educators, 605 SE 70th Ave., Portland, Oregon 97215.

ORV's and Rare Plants

I plan on doing an article for Kalmiopsis on the impacts of off-road vehicles on rare plants in Oregon. If you have information on this issue on either public or private lands in Oregon, please send me the details. I feel this is an important issue, and no one has the "big picture" in our state.

Stu Garrett
1501 NE Medical Center Drive
Bend, Oregon 97701

STATE OFFICERS

DIRECTORS (to 6/95) Jenny Dimling, Veva Stansell, Nancy Wogen
 DIRECTORS (to 6/96) Jerry Igo, Ethen Perkins, Peter Zika
 PRESIDENT Bruce H. Rittenhouse. 1170 Michigan, Coos Bay 97420-3167; w:756-0100; h:888-9328
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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Paul Bakke. P.O. Box 476, Powers 97466; 439-7234
 UMPQUA VALLEY (Roseburg) Sandra Stiltner. 1963 Lookingglass Rd., Roseburg 97470; 672-5903
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Bob Ottersberg. PO Box 885, La Grande 97850; 963-6043

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Esther McEvoy. 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Jan Dobak. 2584 NW Xavier St, Portland 97210-2412; 248-9242
 Budgets and Grants Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8

() Regular. \$12

() Family. \$18

() Sustaining. \$30

() Patron. \$100

() Life Membership. \$500

() New "Quarter" Membership. \$3

Only for new members

enrolled during September through December

() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

Only for those wishing to subscribe

but not have "membership" status

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

In this issue

President’s Column -- Bruce Rittenhouse. 5

Endangered Species Workshop -- Bruce Rittenhouse. 5

Environmental Lobby Days -- Mary Vogel. 5

Down by the Seashore: The Pink Sandverbena -- Crista Chadwick. 6-7

Plant Puzzle. 7

We Welcome New Members. 8

Tree Seminar Announced. 8

ORV’s and Rare Plants -- Stu Garrett. 8

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NATIVE PLANT SOCIETY OF OREGON

General Business Address: P. O. Box 902, Eugene, OR 97440

or correspond directly with the Officers and Committee Chairs listed on the inside back page.

Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

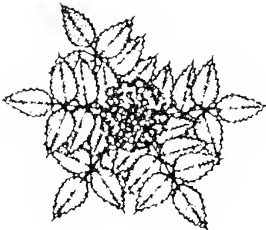
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Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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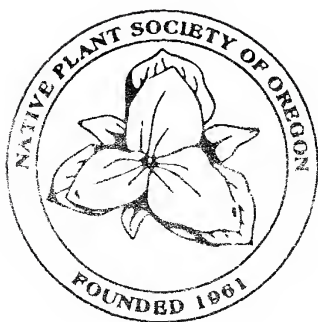
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Quick Action Needed on ESA-- See Page 18

It's Still Renewal Time

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NPSO brings you field trips, programs, classes, the monthly Bulletin and the annual Kalmiopsis. Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

State News

State Board Meeting: The date and location are unknown at this time. Call Bruce Rittenhouse, 888-9328 (home) or 756-0100 (work) for information.

June 16-18
Fri. - Sun.

Annual Meeting: Hosted by the Portland Chapter at Brightwood, near Mt. Hood. Dr. Linda Vorobik, NPSO member for many years, formerly editor of the Bulletin and chief illustrator of The Jepson Manual will be the speaker at the Saturday evening banquet.

There will be a short program Friday evening, field trips on Saturday, and Board Meeting Sunday. Lodging: On your own in motels and campgrounds. Registration forms, field trip details and a list of motels and campgrounds will be in the March Bulletin.

Chapter News

Blue Mountain

Feb. 6, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. We will put together our field trips for the year, and also have a review of the books available on native plants in our area. If you have new or unusual references, please bring them to show to others.

Mar. 6, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton.

Karl Urban will give an overview of his work with the USFS, and also on the trees of our area.

- Apr. 3, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Berta Youtie of The Nature Conservancy will show slides of her trip to Africa.
- May 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Bruce Barnes will demonstrate the computer polyclave expert system plant key he developed for the plants of the Umatilla National Forest.

Corvallis

- Feb. 13, Mon. **Meeting:** Officers and other interested members will meet to discuss the Chapter's activities for 1995. Call Keli Kuykendall, 758-8409, for time, place and other information.
- Mar. 13, Mon. **Meeting:** 7:30 P.M. in room 2087, Cordley Hall, OSU campus. Dr. Robert Frenkel will discuss wetlands research at Finley Wildlife National Refuge.
- Apr. 10, Mon. **Meeting:** 7:30 P.M. in room 2087, Cordley Hall, OSU campus. Loren Russell will present "Spring in the Illinois Valley."
- Field Trip:** Upcoming trip to Eight Dollar Mountain. Date to be announced.

Emerald

- Feb. 27, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Sedges have edges... Barbara Wilson, *Carex* queen, will give a 3-part talk with slides: *Carex* 101; the role of *carex* in the Willamette Valley prairie; and the role of the *Carex* Working Group in the Pacific Northwest. (Rescheduled from January.)
- Mar. 4, Sat. **Field Trip:** Dr. David Wagner will lead a "moss walk" along Bryce Creek, east of Cottage Grove. Leave from S. Eugene H.S., 9 A.M. Call 342-4169, for more information.

High Desert

- Feb. 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. The fire history of the Metolius and Black Butte area will be presented by Dr. Robert Sherman.
- March 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Slide show night. Bring your favorite slides to show fellow members.
- April 25, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Linda Rexroat, Range Ecologist, the Nature Conservancy, will discuss restoration ecology at Sycan Marsh.

Mid-Columbia

- Feb. 1, Wed. **Meeting:** 7:30 P.M., at the Mosier School. Sally Claggett, a botanist with the Gifford Pinchot National Forest, will talk about "Likin' Lichens."

Mar. 1, Wed. **Meeting:** 7:30 P.M. Mosier School. Krista Thie, well-known herbalist and author, will give a presentation on the medicinal plants of the Columbia Gorge.

North Coast

Feb. 28, Tues. **Meeting:** 7 P.M. Tolovana Club, 3779 S. Hemlock, Cannon Beach. Kathleen Sayce will present "Wetlands and Dunes Ecology." Call Christine Stanley, 436-0161, for more information.

Portland

Feb. 4, Sat. **Course:** Native Plant Landscaping, 2nd session. 9 A.M. - Noon. Site Analysis and Design, with Mike Faha (landscape architect), Mark Wilson (horticulturist), Mike McKeag (gardener), Gretchen Vadnais (landscape architect. Noon - 2 P.M. Nearby case study, with Andy Rice (landscape architect) and Richard Marx (gardener).
(See January Bulletin for more details, or call 761-9503)

Feb. 11, Sat. **Course:** Native Plant Landscaping, 3rd session. 9 A.M. - Noon. Implementation: Soil preparation, Sources of plants, Purchasing, Ethics of collecting. With Gregg Everhart (landscape architect), Tami Katz (architect), Dale Shenk (Hortus NW). Propagation Demonstration Outdoors, with Scotty Fairchild (Leach gardener).

Feb. 14, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Nolan Kiner will take us on a field trip through the Warner Mountains of northern California. The meeting room will be open at 6:30 for socializing.

Feb. 19, Sun. **Field Trip:** 9 A.M. Wetland ecologist Ralph Rogers, 760-4928, will lead to several interesting sites along the Springwater Corridor and to a lake on Powell Butte to examine native plant communities still surviving in the metro area. Focus on the interaction of plants and wildlife in these areas. Hike about 3 1/2 mi. Take lunch and rain gear. Meet at 162nd and Powell.

Feb. 25, Sat. **Field Trip:** 12:30 - 5:30. National Wildlife Federation field trips in conjunction with their "Home Is Where The Habitat Is" conference. Call 222-1429.

Mar. 12, Sun. **Field Trip:** 9 A.M. Mary Vogel will lead on a study of upland and riparian native plant communities in Portland's own Forest Park, incorporating some discussion of the new Forest Park Management Plan. She may be joined by Fred Nilsen, Portland Parks Arboriculturist. Hike about 6 mi. Meet at World Forestry Center parking lot to car-pool.

Mar. 19, Sun. **Field Trip:** 2-5 P.M. NPSO member Mike McKeag's three year. old native plant landscape in his suburban yard in Aloha. Call 642-6120 to register. Limit 10.

TBA **Field Trips:** Call Mary Vogel, 645-1992, if you can lead urban greenspaces field trips -- on foot or by canoe. The "Campaign for Open Space, Parks and Streams" ballot measure must be mailed back by May 16. Prior to that we will have field trips to urban natural areas to educate our members and the public about such areas as Willamette River Greenway, Boring Lava Domes, Tualatin River Greenway, Fanno Creek, Jackson Bottom and McKay Creek, North Bank Clackamas River Trail, Beaver Creek Canyon or any of the other 16 natural areas proposed for acquisition.

Field Trips: Newell Creek, Forest Park old growth addition, Sandy River delta and Beaver Creek canyon are just a few of the sites. Green City Data has requested NPSO volunteer naturalists or resource experts to assist with field trips -- especially with plant inventories in March and April. In 1995, they have 19 teams of urban youth conducting research in support of urban natural area acquisition, stream and

pond restoration, wetland mitigation, trail siting and natural resource plan development. Teams will conduct several 2 - 3 hour weekday field trips to their site, but NPSO volunteers can work on as many or as few as they choose. Please make arrangements to meet your chosen team prior to March. For more information call Jim Gillen, 690-1341, or Steve Engel, 699-8112, or for Sandy River only, Dawn Sater, 666-0761.

Siskiyou

Feb. 16, Thurs. **Meeting:** 7:30 P.M., room 171, Science Building, SOSC, Ashland. John McClendon will show slides of "French Polynesia -- Tahiti, Tuamotu and the Marquesas."

South Coast

No activities planned until April.

Umpqua Valley

Feb. 9, Thurs. **Meeting:** 7 P.M., room 310, Douglas County Courthouse. Ted Wiesman presents a program on plant fossils in Douglas County. Call Ted Schattenkerk, 679-6953, for more information. (No field trips scheduled for February.)

Willamette Valley

Feb. 27, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Art McKee presents "The Care and Feeding of Wild Riparians." **Note: Meeting date is a week later than usual.**

Wm. Cusick

Feb. 15, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. Marty Stein will give a multimedia presentation on "The Economic Botany of the Philippines." Call Bob Ottersberg, 963-6043, for more information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

President's Column

We need your help. If you are interested in getting involved with NPSO, now is the time. NPSO is looking for volunteers to be officers; these include president, vice president, secretary, treasurer and three at-large board members. The Board of Directors meets four times a year (January, April, June, September) to discuss issues concerning native plants. If you are interested, please get in touch with me by February 10.

I received a letter from Ken Berg, BLM's National Botanist, formally inviting NPSO to join the Native Plant Conservation Initiative as a cooperator with the Federal Native Plant Conservation Committee. I am happy to say that the Board of Directors unanimously approved our joining.

A Memorandum of Understanding was signed in May, 1994, and it included the BLM, Forest Service, National Park Service, Department of Defense, National Biological Survey, USDA Agricultural Research Service, Soil Conservation Service and US Fish and Wildlife Service. There are now eight federal agency and 23 non-federal co-operators (including Berry Botanic Garden, Center for Plant Conservation, New England Wildflower Society and The Nature Conservancy) working together to promote more efficient and effective native plant conservation efforts.

The benefits of joining the Initiative include, improving networking and collaboration with federal, state and local government, and other non-governmental plant conservation interests. Recently, the Initiative secured a \$250,000 challenge grant from the National Fish and Wildlife Foundation for on-the-ground native plant protection, restoration and education projects with federal agencies and other partners.

To me, this sounds like a great opportunity for the Native Plant Society to join other state and national groups in increasing the awareness of conserving our native flora.

Bruce Rittenhouse
NPSO President

Cost Shares Due March First

Just a reminder that Cost Share requests with the Native Plant Society of Oregon are due on March 1. They should be sent to Bruce Rittenhouse at 550 Fillmore, Coos Bay, Oregon 97420-3167.

If you missed the guidelines for submitting these proposals, here they are again.

Submissions should not exceed one page in length, and should include the following information.

Title:

Contact Person:

Agency

Address/telephone number

Project Description:

What is being asked of NPSO:

How the project will benefit native plants:

Funding Sources (other than NPSO):

Budget Summary/Work Plan:

The maximum amount that NPSO can award is \$500. Last year we awarded four cost shares (one to inventory a rare species, one for an interpretive sign, and two for native seed collection and propagation) and we are happy to again offer cost shares in 1995. If you have any questions, please contact:

Bruce Rittenhouse
888-9328 (home)
756-0100 (work)

Summer Intern Reports

The following is the last in a series of articles in which NPSO conservation biology interns discuss their activities during the 1994 field season; a fifth article had been planned, but unforeseen circumstances prevent its publication. Interns were selected from a pool of about 30 applicants, and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program in carrying out research related to threatened and endangered species in the northwest. Project locations ranged from Hell's Canyon to vacant lots in Klamath Falls, and for one participant included a molecular taxonomy laboratory at OSU. Interns were jointly funded by NPSO, state, and federal dollars and plan to use their experiences in furthering their careers in botany. Thanks again to NPSO for contributing to botanical education.

Bob Meinke
Program Leader

To Boldly Go...

As a native Oregonian who has lived in the Portland area since birth (28 years ago), I had always been somewhat ashamed of my limited exposure to the natural beauty our state has to offer. However, upon learning that I was to be a summer intern for the NPSO/ODA, I realized that virtually every destination would provide a new environment to experience. More importantly, the internship held the promise of valuable experience in the applied science of plant conservation biology. I could not wait for the summer to begin.

After a few moderately taxing weeks of nose-to-the-ground demographic monitoring to start out the internship, my colleagues and I were eager for the change of pace that a plant survey trip to Hell's Canyon would bring. (This is not to imply that demographic monitoring is an unfavorable task. As an aspiring conservation biologist whose previous vocation was as a road crew worker, an arduous day of monitoring beats a great day of paving roads, period.) We performed the obligatory gear-loading routine and plotted a course for the northern portion of the Imnaha River, a few miles southwest of the Snake River canyon. Our five day mission: to seek out rare plant populations and collect associated species; to explore strange new drainage valleys, basaltic outcrops, and seeps; to go boldly where no botanist had gone before. More specifically, our objectives

were: to confirm purported populations of the filmy-leaved monkey-flower (*Mimulus hymenophyllus* Meinke), the stalk-leaved monkey-flower (*Mimulus patulus* Penn.), and Oregon bolandra (*Bolandra oregona* Wats.); collect specimens of these plants, given proper abundance; and search for and record on topographical maps any additional populations found in this relatively poorly explored botanical region.

Considering the expanse of potential habitat at the locality, our small group size (5), and locomotive (bipedal) constraints, we developed a plan of attack to cover as much terrain as possible. We split into groups and checked several seeps/drainages that either directly or indirectly fed into the Imnaha River. But the plants were rather elusive. Unfortunately, no *M. hymenophyllus* plants were found during the whole trip. This delicate, perennial, yellow-flowered "Scroph" grows on moist, basaltic cliffs near the Snake River canyon in eastern Wallowa County and was first discovered in the early 1980's. Although we repeatedly plunged through thick brush to gain a clear sight of these cliffs, we never found any of this endemic which is known from only a few drainages along the Imnaha River. As for *B. oregana*, only a few individuals were found on a shadowy, damp cliff face up one of the numerous, brushy canyons we explored. This member of the saxifrage family can also be found in the Columbia River Gorge where it grows on damp, rocky outcrops.

Despite its meager size and rarity, *M. patulus* was somewhat more obliging to our houndlike searches. *M. patulus* is a slender, erect, annual "Scroph" that grows up to eight inches tall on moist ground and damp rock walls in Wallowa County. Historically, this plant is known from collections from nearby Idaho and Washington, though now after hydropower development it is restricted to Wallowa County. It seems that once a familiarity for a plant's habitat is learned, encountering the right associated species and physical conditions sets off a sort of "fixed action pattern." With a *M. patulus*-sized plants among hundreds of *Mimulus guttatus*, this pattern consists of stalking at a snail's pace while hunched over like a kiwi bird performing a robotic back and forth scan until the target plant has been located. In such a manner, we found a few small populations growing on damp soil among *M. guttatus*, *Veronica americana*, and some undetermined rushes and sedges.

The highlight of the trip occurred one evening when I decided to take a walk and do some bird-watching. Only a quarter of a mile from the cabin

where we were staying, an eastward flowing drainage with a scant, but steady flow of water sparked my curiosity and set into motion the aforementioned fixed action pattern. It was prime *M. patulus* habitat, but yielded only its associated species and a 20 foot headwall. The sun threatened departure but I had enough time to climb to the bench above. The prolific *M. guttatus* told me this could be pay dirt. I assumed the kiwi position and after some quick scanning, there they were! Three robust *M. patulus* plants! Setting my hat next to them I quickly searched for more and found two in the immediate area. With darkness approaching, I returned to the cabin thrilled with the good news.

The next day, a five mile one-way hike along the Imnaha River to the Snake River checking cliffs and drainages didn't afford any new sightings of the three plants sought. However, the gorgeous landscape, learning new species, and a refreshing swim made it more than worthwhile. The final day, as we climbed out of the valley to the mountains overlooking the river below, a golden eagle circled overhead lending storybook quality to our departure. At that time, I knew the weeks to come wouldn't quite measure up to this one. But knowing that the rest of the summer would be spent helping with the conservation of our native flora, I looked forward to the forthcoming work.

Sincere gratitude and thanks to the following: the Native Plant Society of Oregon for sponsoring me for this internship; Bob Meinke, Tom Kaye and Jack Greenlee for selecting me to participate; all the co-workers and interns; Kim St. Hilaré and Dr. Karl Holte for introducing me to field botany.

Armand Rebischke

It's Tax Time

In 1994, the Internal Revenue Service imposed on non-profit organizations the requirement that all contributions of \$75 or more be acknowledged in writing. We believe this has been done, but any member who hasn't received an acknowledgment should contact the Membership Committee immediately. In September, the Board adopted the policy that the first \$12 of any membership payment represents value received (Bulletin and Kalmiopsis subscriptions), and only that part exceeding \$12 is considered tax deductible for federal and state income tax purposes. Members who need more information should consult their tax advisers.

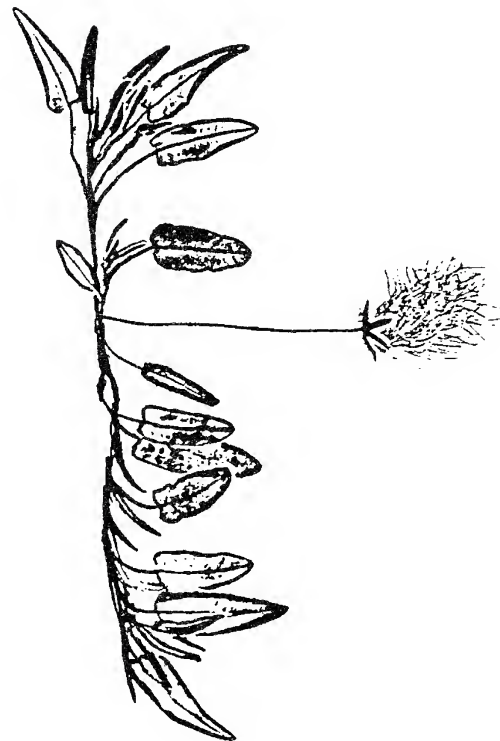
Jan Dobak, Membership Committee

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you know this native Oregonian? The first person to submit the correct scientific name will win a prize. Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



1
cm

Stu Garrett of Bend was first to solve the January puzzle. His plants of Oregon, New Hampshire and Norway were yarrow (*Achillea millefolium*) and common juniper (*Juniperus communis*).

The ESA and the Contract “on” America

The new Congress is acting swiftly to meet its 100 day achievement goal. Though not clearly stated, crippling, if not dismemberment of the Endangered Species Act is part of its agenda. A frontal legislative attack has been launched. First, already introduced are HR5, HR9 and S1, S135, S145, each embodying the hostile bills of the last session.

Second, the House Appropriations Committee, chaired by Don Young (R-AK and no friend of the ESA), is currently reviewing the FY '95 (current) federal budget to find allocations which can be “rescinded” (deleted or cut) to reduce federal expenditures. Targeted for rescission are farm conservation incentives, water quality and wetland protection programs, as well as programs nurturing endangered species of plants and animals.

Under the rubric of “no unfunded mandates,” Contract/America intends to revoke or suspend those federal regulations which set standards and guidelines for state and local governments, as well as private landowners, which do not pay the cost of compliance. If successful, this will also accomplish other Contract goals, “less federal government,” and “no ‘takings’ without compensation.” Consequently, currently appropriated funds for implementing ESA are vulnerable. Likewise, reauthorization of the Endangered Species Act itself, as well as its funding in the FY 1996 federal budget are at risk.

In addition, Oregon’s own Senator Hatfield, Chair of the Senate Ways and Means Committee, has said he will attach a rider to any appropriations bill which will suspend the ESA so that logging can begin on federal land in the Pacific Northwest.

Yes, things are happening fast. In fact, hearings have already begun, to which no environmentalists have been invited to testify. The House Appropriations Committee expects to have its rescission bill on the House floor no later than mid-February. It is important, therefore, that we act swiftly to register our concerns with our congressional representatives. Two major themes are suggested for our letters, telephone calls, FAXes, and personal visits:

(1) That you strongly oppose any weakening of

the ESA in the appropriations process, including FY 95 rescission proposals. (2) That you strongly urge increased funding for the ESA.

The January ESA Mobilization for Action Conference in Seattle can’t do it all. Each of us must help. In addition to your contacts now, arrange a personal visit with your legislator when he or she returns home during the Easter recess.

Due to the re-shuffling which goes with Congressional turnover, for now use the following generic addresses for your federal legislators:

U.S. Senate, Washington, D.C. 20510, (202) 224-3121. U.S. House of Representatives, Washington, D.C. 20515, (202) 225-3121.

The National Wildlife Federation and the Endangered Species Coalition have joined forces to create a nationwide environmental network of more than 260 organizations, groups and individuals to protect current ESA programs and support the reauthorization of a strengthened Endangered Species Act. The network’s credo is that unity and strength of purpose can overcome what seem to be insurmountable obstacles. Information resources and a comprehensive strategy, locally adaptable, are available to all groups and individuals concerned over the fate of our natural heritage. For detailed information, background papers, speakers, press releases, projects and activities for yourself or your NPSO chapter, contact:

Monica Bond
National Wildlife Federation
921 SW Morrison
Portland, Oregon 97205
503-222-1429
FAX 503-222-3203

or

Beckie Dinwiddie
Endangered Species Coalition
1516 Melrose Avenue, Suite 202
Seattle, Washington 98122
206-623-2734

Act now to join the information loop. Meanwhile, get those letters off to Congress!

Mariana D. Bornholdt
Willamette Valley Chapter

Life in an Aspen Grove

The Colorado Native Plant Society is presenting this educational program in slide/cassette or videotape format. It is an introductory level program and it takes a close look at aspen trees and the rich and varied habitat they create, as well as on the many species that call aspen woodlands home for all or part of the yearly cycle. The audience is encouraged to think about the relationships among the various components in an ecosystem.

An aspen grove may contain hundreds of species from grasses to gophers, from wildflowers to woodpeckers, from beetles to beavers, from berries to bears. It is more varied than the dense, dark spruce-fir forest that may eventually replace it.

This program includes 80 color slides depicting this varied plant and animal life. A cassette tape (with audible advance signals) contains the spoken narrative. Alternatively, the program is available as a 27 minute videotape. Accompanying both versions is a printed booklet that includes the narrative, an extended text containing additional details, and a glossary of terms used in the program.

The slide/tape costs \$42, plus \$3.50 postage and \$2.52 tax. The videotape is \$20, plus \$3.50 postage and \$1.20 tax. It may be obtained from:

Aspen Program
Colorado Native Plant Society
P.O. Box 200
Fort Collins, Colorado 80522-1020

For more information, call Dr. Miriam Denham, Chair of the Colorado Native Plant Society's Education Committee, at 303-442-1020.

Earth Day Observance

The 25th anniversary of Earth Day will be observed and the second annual Restoration Work Day (s) will be held at Klamath Marsh National Wildlife Refuge on April 21, 22 and 23, 1995. Help plant willows and aspens, visit a great gray owl, take field trips and take part in other activities. For more information call Wendell Wood, 503-885-4886 or 783-2206, FAX 503-885-4887, or write him at P.O. Box 667, Chiloquin, Oregon 97624.

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett. \$1, minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by 10th of the month.** CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time. For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

- NOTICE -

CALL FOR PAPERS

The Native Plant Society of Oregon will sponsor a

SYMPOSIUM ON THE CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA

To be held at the Lasells Stewart Center on the Oregon State University Campus,
Corvallis, Oregon, November 15-18, 1995

The symposium will investigate research and current work concerning the conservation and management of Oregon's diverse native plant species and communities. Symposium presentations and posters will be organized under the following themes:

"Ecology, Management, and Conservation of Oregon's Rare Plant Species"

Keynote Speaker:

"Bringing Back the Natives: Restoration of Oregon's Native Plants and Communities"

Keynote Speaker:

"Plant Systematics, Ecology and Biogeography of Oregon's Native Plants and Communities"

Keynote Speaker:

"The 'Lower' World of Oregon's Floral Diversity - Bryophytes, Lichens, and Fungi"

Keynote Speaker:

Persons interested in participating in the symposium should submit an abstract and preferred session to the address below no later than **May 1, 1995**. Speakers will be notified by June 1, 1995. Anyone is encouraged to submit abstracts for papers and posters related to the four themes listed above. Abstracts should be submitted on a 3.5" computer disk, in Wordperfect 5.0 or higher, along with three paper copies. Abstracts should be 200 words or less using 1.5 inch margins. Indicate whether you prefer to present a contributed paper or poster and if you need any equipment other than a slide projector or overhead projector.. Submit abstracts to: **Tom Kaye, OSU, Dept of Botany and Plant Pathology, Cordley Hall 2082, Corvallis, OR., Phone 503-737-2346, Fax 503-7373573, email Kayet@bcc.orst.edu.**

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 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
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 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
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 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your **old address** here:

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8

() Regular. \$12

() Family. \$18

() Sustaining. \$30

() Patron. \$100

() Life Membership. \$500

() New "Quarter" Membership. \$3

Only for new members

enrolled during September through December

() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

Only for those wishing to subscribe

but not have "membership" status

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

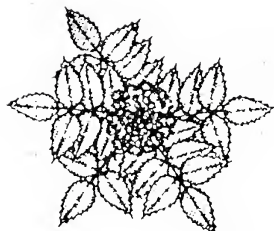
In this issue

President's Column -- Bruce Rittenhouse.	15
Cost Shares Due March First -- Bruce Rittenhouse.	15
To Boldly Go... -- Armand Rebischke.	16-17
It's Tax Time -- Jan Dobak.	17
The Plant Puzzle.	17
The ESA and the Contract "on" America -- Mariana D. Bornholdt.	18
Life in an Aspen Grove.	19
Earth Day Observance.	19
NPSO Items For Sale.	19
Call For Papers (Conservation and Management of Oregon's Native Flora).	20

NATIVE PLANT SOCIETY OF OREGON
General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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***Bulletin* of the Native Plant Society of Oregon**

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

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MARCH 1995

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Renewal Time Is Running Out.

The grace period for membership renewal ends in March. Check your address label on this issue to see if this is the last Bulletin you will receive. If so, you can avoid falling from grace by sending your renewal to the Membership Committee.

State News

April 1, Sat.

State Board Meeting: 10 A.M. Coos Bay, at Southwestern Oregon Community College (SWOCC). Directions: Southbound on 100 cross McCullough Bridge into North Bend, get in right lane, turn right at 2nd light (Virginia St.) left at 1st light after mall (at 7-eleven) onto Broadway, get in right lane which will turn right at the Sizzler (sweeping curve) onto Newmark Blvd., turn into SWOCC campus across from Walmart and follow NPSO signs. Northbound on 101, go through Coos Bay, turn left at Ming Palace Restaurant onto Newmark Blvd., go about 2 mi. (through 4 lights, turn right at SWOCC entrance as above. Possible field trip to Shore Acres. For more information call Bruce Rittenhouse, 756-0100 (w) or 888-9328 (h).

June 16-18

Annual Meeting: Hosted by the Portland Chapter, at Brightwood, near Mt. Hood. Dr. Linda Ann Vorobik, NPSO member for many years, formerly editor of the Bulletin and chief illustrator of The Jepson Manual, will be the speaker at the Saturday evening banquet. Her topic will be "Assembling a state flora -- challenges of producing the Jepson Manual." Details and registration form are in this issue of the Bulletin.

Chapter News

Blue Mountain

March 6, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Karl Urban will give an overview of his work with the USFS and also on the trees of our area.

April 3, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Berta Youtie of The Nature Conservancy will show slides of her trip to Africa.

NPSO Bulletin

23

March 1995

May 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Bruce Barnes will demonstrate the computer polyclave expert system plant key he developed for the plants of the Umatilla National Forest.

Corvallis

March 13, Mon. **Meeting:** 7:30 P.M., room 2087, Cordley Hall, OSU campus. Dr. Robert Frenkel will discuss wetlands research at Finley Wildlife National Refuge.

April 10, Mon. **Meeting:** 7:30 P.M., room 2087, Cordley Hall, OSU campus. Loren Russell will present "Spring in the Illinois Valley."

Emerald

March 4, Sat. **Field Trip:** Dr. David Wagner will lead a "moss walk" along Brice Creek, east of Cottage Grove. Leave from S. Eugene H.S., 9 A.M. For more information, call Dave at 342-4169.

March 18, Sat. **Field Trip:** Dr. Bruce McCune, OSU lichenologist, will lead a trip to the Mohawk Research Natural Area, Eugene BLM. Leave from S. Eugene H.S., 9 A.M.

March 27, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Mike Perkins, Integrated Vegetation Management Coordinator for Lane County, will update us on "Lane County IVM" including roadside signing for T&E plants, new techniques in erosion control and roadside revegetation.

April 15, Sat. **Special Meeting:** Lane County Rare and Endangered Plant update. If interested in participating, call Bruce Newhouse, 343-2364, for information on time and place.

High Desert

March 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Slide show night. Bring your favorite slides to show fellow members.

April 25, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, in Bend. Linda Rexroat, Range Ecologist, The Nature Conservancy, will discuss restoration ecology at Sycan Marsh.

Mid-Columbia

March 1, Wed. **Meeting:** 7:30 P.M., Mosier School. Krista Thie, well-known herbalist and author, will give a presentation on the medicinal plants of the Columbia Gorge.

April 5, Wed. **Meeting:** 7:30 P.M., Mosier School. Ed Alverson, a land steward for the Nature Conservancy, will give an overview of western Oregon Nature Conservancy preserves.

April 23, Sun. **Show:** The 21st annual Wildflower Show. Mosier School, 10 A.M. to 4 P.M.

North Coast

March 18, Sat. **Field Trip:** 10 A.M. Walk through old-growth to see headland vegetation at Cape

Falcon. Meet at northern parking lot of Oswald West State Park. For more information call Christine Stanley, 436-0161.

- March 28, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Jaylen Jones will discuss plans for mapping vegetation at Bay Ocean Spit. For more information call Christine Stanley, 436-0161.

Portland

- March 12, Sun. **Field Trip:** 9 A.M. Mary Vogel will lead on a study of upland and riparian native plant communities in Portland's own Forest Park, incorporating some discussion of the new Forest Park Management Plan. She may be joined by Fred Nilsen, Portland Parks Arboriculturist. Hike about 6 mi. Meet at World Forestry Center parking lot to car-pool.
- March 14, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Dr. Aaron Liston, Director of the Herbarium, OSU, will give a talk on the locoweeds of the world. The room will be open at 6:30 P.M. for socializing.
- March 18, Sat. **Field Trip:** Catherine Creek. Jan & Dave Dobak lead an easy walk to view early spring wildflowers in the Columbia River Gorge. Hike up to 4 mi. Elev. gain 400 ft. Drive 14 mi. R.T. Meet at Lewis & Clark State Park off I-84 at 8 A.M.
- March 19, Sun. **Field Trip:** 2-5 P.M. NPSO member Mike McKeag's three year old native plant landscape in his suburban yard in Aloha. Call 642-6120 to register. Limit 10.
- March 26, Sun. **Field Trip:** 9 A.M. CCC/Camassia. Richard Marks, 235-6193, will lead on a native plant tour to Clackamas Community College and the Jewett property at Bosky Dell, then Susan Caldwell, 228-9561, will take us on a tour of Camassia, which will give us a vantage point for some of the greenspace target areas for the Willamette River Greenway as well. Walk 2-3 mi. Optional 2 mi. hike through Mary Young State Park at day's end. Meet at CCC parking lot closest to Trail's End Hwy. entrance on right.
- April 1, Sat. **Field Trip:** 9 A.M. Columbia Gorge "Cherry Orchard" site with Barbara Robinson, 478-3293, of Mid-Columbia Chapter. 6.5 mi. hike with 1400 ft. elev. gain. Meet at ODOT, 60th and NE Glisan. Take the ten essentials.
- April 2, Sun. **Field Trip:** 9 A.M. Fanno Creek Greenway with Doug Fanno, 590-3421, of Fans of Fanno, and Mary Vogel. Inspect some recent restoration work along this easy 5 mi. round trip from Greenway Park to Englewood Park. Take your wetlands field guide, since we pass through several. Meet at Fanno House just east of Hall Blvd. on Creek-side (historic house in an office park) in Beaverton.

Siskiyou

- March 16, Thurs. **Meeting:** 7:30 P.M., room 171, Science Building, SOSC, Ashland. John McClendon will show slides of "French Polynesia -- Tahiti, Tuamotu and the Marquesas."

South Coast

- April 8, Sat. **Field Trip:** Lemmingsworth Gulch to see *Darlingtonia* bogs with hopes of seeing *Pinguicula vulgaris* and *Viola primulifolia*. Meet at the Brookings Fred Meyer, along highway 101 at 10 A.M.

Umpqua Valley

- March 9, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Abby Ross will speak on the coming Glide Wildflower Show. Call Sandra Stiltner, 672-5903, for information.
- March 25, Sat. **Field Trip:** To Table Rock. Meet at BLM parking lot for 7:45 A.M. departure, or in Canyonville at Fat Harvey's for 8:30 A.M. departure. Call trip leader Jack Hausotter, 863-5347, for more information.

Willamette Valley

- March 20, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Presentation by Wayne Cudmore of a slide show on biodiversity.

William Cusick

- March 15, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. Berta Youtie presents the national parks of southern and eastern Africa. Contact Bob Ottersberg, 963-6043, for more information.

Rare Plants Along State Highways

Oregon Department of Transportation Program On Threatened and Endangered Species

Jerry Igo will present a program on Oregon Department of Transportation's response to rare plants found on state highway rights-of-way. On Tuesday, March 14, the program will be at Clackamas Community College, in Oregon City. And on March 21, it will be at Chemeketa College in Salem. Both programs will take place from 1 to 4 P.M. Check locally for room numbers.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.

For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

**We Welcome New Members
Joining From 11/21/94 to 1/7/95**

Corvallis
Irene Brown
Barbara Wilson

Emerald
Eugene Lewins
Sarah Sherwood
Gilbert A. Voss

High Desert
Gerry Craver
Alissa DeVoney
Rick Goldstein & Alison Lynch-Miller
Cynthia Persichetty O'Hara
Judy Sale

North Coast
R.J. Garono

Portland
Kim Bredensteiner
Becky A. Kadrmas
Paul Raether
Claudia P. Steinkoenig

Siskiyou
Dennis & Chris Hill
Wendell Wood

William Cusick
Jan Arthur Abeita
Kate Boula
Marcia Wirth

Willamette Valley
Bethine Bigej
Clifford L. Schmidt

Members at Large
Roger Rosentreter & Ann DeBolt

**And Still More New Members
Joining From 1/8/95 to 2/4/95**

Corvallis
Gina Glenne
Claudia McCue
Moniua Myrdal

Emerald
Timothy A. Dickinson
Dylan Fischer
Linda Jennings
Marcus Lorusso
Fran Rosenthal
Rebecca Wilson

High Desert
Mary Hodson
Sherry Hossom

Mid-Columbia
Lon & Lori Johnson

North Coast
Neal Maine

Portland
Roy Beaty
Melanie Bjorge
Joe Blowers
Uta & Charlie Crisafulli
Beverly E. Doty
Mike Foix
Christine Holden
Theresa Selvy & Craig Harper
Bernie Smith
Robert Toelle
Tualatin City Parks & Recreation Dept.

Siskiyou
Jeanne Bamforth
Alan Horobin
Ann Strauss

Umpqua Valley
Lloyd Cruger

William Cusick
Plantworks Native Nursery
Barb Ripperda

Willamette Valley
Donna Anessi
Chris Elkins
Juan Mendoza

What's Happening In the Willamette National Forest

The Willamette National Forest has the distinction of serving three NPSO chapters: Emerald (Eugene), Corvallis and Willamette Valley (Salem). As Forest Botanist, I'd like to catch you up on what our Botany Group (Mike Roantree, Alice Smith, Pat Ford, Evelyn Everett, Kim McMahan and I) have been doing during the past year.

Our botany program began in response to the need to conserve rare (called sensitive by the USFS) plants; this remains one of our most important activities. In the past two years we have been involved in the development of two Conservation Strategies.¹ for sensitive plants: Umpqua swertia, *Frasera umpquaensis* (with Rogue River, Umpqua, Siskiyou NF's and Eugene and Medford BLM Districts, and Gorman's aster, *Aster gormanii* (with Mt. Hood NF and Salem BLM). Strategies for tall bugbane, *Cimicifuga elata*, and adder's tongue, *Ophioglossum pusillum*, are in progress. Monitoring these species is high on our list of yearly activities.

The Botany Group has worked for three years, in association with wildlife biologists, ecologists and silviculturists, in developing a guide to special habitats (mostly non-forested sites such as meadows, rock gardens, rock outcrops -- mostly sensitive plant habitat) for the forest. This features the plant associations or groupings, their associated wildlife species, and suggestions for their management. A database has been set up to track these habitats and they are being systematically inventoried by botanists as part of the watershed analysis process.

Botanists also serve as noxious weed coordinators in the Willamette National Forest. In 1993, we published an Environmental Assessment for Integrated Weed Management in the forest. This document outlines priority species (new invaders) and outlines how to identify weed sites and choose control methods based on the characteristics of the site and the weed. We have focused mostly on manual and biological controls in the past, but this year we initiated a competitive planting program (using a variety of seed mixes to see which works best) and a mowing program in the McKenzie

Watershed.

A Revegetation with Natives program is in its infancy in the Willamette National Forest. In 1993, we collected our first native grasses to try growing them at a USFS nursery. This year we began a multi-year challenge cost-share project with Forbes Seed and Grain to conduct a common garden project where seeds of the same species from all over the forest (and from Eugene BLM and Siuslaw NF) are grown together. Monitoring of emergence, flowering time and seed production will allow us to determine some preliminary seed zones for transfer of native grasses. We hope to eventually come up with erosion control and wildlife forage seed mixes composed entirely of native species.

The President's Forest Plan, finalized this spring, has changed the way the USFS in western Oregon does business. Pat Ford, McKenzie/Blue River botanist, was involved in the forest's Pilot Watershed Analysis for the South Fork of the McKenzie River. Watershed analyses will need to precede most of our specific project plans, so they will be conducted throughout the forest. One of Pat's biggest projects was the development of a database of all the mosses, lichens, liverworts and fungi listed as old-growth associated in the Forest Plan. Botanists will be spending a lot more energy on these species in the future. Other watershed analyses were conducted on the Detroit (Blowout -- Mike Roantree), McKenzie (Santiam Pass -- Pat Ford) and Rigdon (Staley Creek -- Evelyn Everett) Ranger Districts and a Watershed Assessment was conducted on the Lowell Ranger District (Jenny Dimling). Next year three watersheds -- South Santiam, Upper McKenzie and North Fork of the Middle Fork of the Willamette -- will be analyzed.

A new program this year, associated with the President's Plan, is jobs-in-the-woods, meant to put displaced timber workers back to work. Projects concentrated on restoration, including revegetation with natives at dispersed recreation sites along the North Santiam River, road closures in Sweet Home RD, and riparian restoration on the Middle Fork of the Willamette River. Workers also eradicated noxious weeds at Long Ranch.

Some of you have participated in our Celebrating Wildflowers programs which take place all summer. These activities are meant to increase recognition of the unique features found across the forest and to illustrate the role the botany program plays in the maintenance of overall biodiversity

1. See the next issue of Kalmiopsis for further explanation of what a Conservation Strategy is.

within the forest. This year we featured classic wildflower walks to Horsepasture Mountain, Tombstone Prairie, Moon Point, Iron Mountain, Delta Campground and McKenzie Research Natural Area. Other unique activities included a wildflower tour with the Sweet Home Chapter of the Garden Club, wildflower photography and watercolor with the Friends of Iron Mountain, weed pulls and an overnight backpack trip in Waldo Wilderness.

If you have any questions about any of the projects mentioned above, or want copies of any of the documents referred to, please feel free to call me at 465-6321. We welcome any suggestions for field trips for Celebrating Wildflowers. Thank you for your support of botany programs in the national forests of the Pacific Northwest.

Jenny Dimling
Emerald Chapter

E-mail Addresses To Be Published

The 1995 NPSO Membership Directory will include a list of the electronic mail addresses of members. A member wishing to have an e-mail address published in the directory should inform the Membership Committee prior to April 15.

Members are reminded that publication of an e-mail address represents an invitation to use the host machine for correspondence which might not be related to the official business of the machine's owner. If your employer frowns on personal use of company or government machines, you will probably not want to have your address published.

Dave Dobak
Membership Committee

Paid Volunteer Needed

NPSO needs a volunteer to serve as liaison to the Environmental Federation of Oregon. This is one of the premier umbrella green groups in the state. It is associated with the United Way campaign. The NPSO board will pay \$1000/year to a NPSO member who will attend meetings in Portland and activities associated with EFO. Some community involvement and coordination with chapters will be needed. This is an excellent opportunity to get involved in important statewide issues and really make a difference. Averages 6 to 8 hours a month. Call Stu Garrett, 389-6981, for details.

Volunteers Needed For Mount Pisgah

Mount Pisgah Arboretum in Eugene is recruiting volunteer nature guides to lead school children on interpretive walks this spring. Guides are also needed to lead afternoon sessions of environmental education, activities and games. Spring Discovery Tours offered to 3rd to 5th grade students are designed to cultivate the natural curiosity of young people and deepen their appreciation and understanding of the environment. The six week program is May 1 to June 9. If you love learning about nature and enjoy working with kids, the Arboretum can put you to work in the woods! For an application and guide training program schedule please contact Adrienne Schartz, at 746-8919.

North American Native Orchid Journal

Publication of the North American Native Orchid Journal, a quarterly (March, June, September, December) has been announced by the North American Native Orchid Alliance, a group dedicated to the conservation and promotion of native orchids.

The first issue, March, 1995, will have articles, illustrations and orchid news, including A Checklist of North American Orchids, an index to 1994 orchid literature, book reviews and extensive information about the Alliance. Contributions for future issues are being accepted. For more information, write the editor at 15 Dresden St., Jamaica Plain, MA 02130-4407.

Membership, including the Journal, is \$22 a year, and should be sent to Nancy Webb, 84 Etna St., Brighton, MA 02135. Memberships received before June 1, 1995 will be offered at the special price of \$18, for the first year only.

Wild Salmon and Clean Drinking Water

They are disappearing faster than you think. Join Regna Merritt, ONRC's Clean Drinking Water program leader and Diane Valentine, Salmon and Rivers program leader at a briefing and slide show and find out what you can do to help.

Portland: Mon. 3/13, Friendly Community House 1737 NW 26th Ave., 7-8:30 P.M.

Salem: Tues. 3/14, First United Methodist Church, 600 State St. Same time.

Eugene: Mon. 3/20, Hungry Head Book Store, 121 Willamette St. Same time.

Bend: Tues. 3/21, COEC, 16 NW Kansas. Same. Call Jon Kart, 223-900x209, for information.

Proposed Revision of NPSO Bylaws

At the January 28th meeting, the Board of Directors voted to ask the membership to approve the following change in the NPSO bylaws. (See enclosed ballot.)

Article 3 -- Membership

The existing Section 1. -- Membership in this Society shall be open to all persons, families or groups interested in the native plants of Oregon. Membership shall be conferred in two ways: 1. upon written application to the State Membership Chairman, accompanied by remittance for dues, as hereinafter provided, or 2. as a member of a chapter as outlined under Article 9. All paid up members of Oregon chapters are automatically members of the Native Plant Society of Oregon. Membership classifications shall be set and revised as needed by the Board of Directors.

To be replaced by this new Section 1. -- Eligibility and Categories of Membership: Membership in NPSO shall be open to all persons, families or groups interested in the native plants of Oregon. There shall be two classes of membership, Regular and Honorary. Regular members are those who pay dues -- as hereinafter provided [Article 5] -- directly to the State Membership Chairman, or to a chapter treasurer as describe in Article 9. All paid up members of chapters are members of NPSO. Honorary members are those upon whom the Board of Directors confers membership without payment of dues, for a fixed term or for life, in recognition of a noteworthy contribution to botany or to NPSO.

Sections 2 and 3 are unchanged.

Section 2. -- Right of Members to Vote: Each membership shall be entitled to one (1) vote on any question requiring a vote of the membership of the corporation, except for participants in family memberships. Each family membership shall be entitled to a maximum of two votes. The right of a group member to vote shall be exercised by an individual designated in writing as the official delegate for that group. (A group means any affiliated organization other than a chapter.)

Section 3. -- Use of the Society's Name: No member may speak for, or in the name of, the Society, without authorization by the Board of Directors

Add new sections 4 and 5.

Section 4. -- Termination of Membership: The Board of Directors may terminate any NPSO membership upon finding, by resolution, that a member has acted contrary to the purposes of NPSO, violated NPSO policies as established by the Board, or used the name of or identification with NPSO (or any of its chapters) without authority and contrary to NPSO policies as established by the Board. Anyone who believes that any NPSO membership shall be terminated shall transmit to the Board of Directors a written request including a statement of the facts and circumstances supporting the request.

Section 5. -- NPSO Fellows. The Board of Directors may from time to time confer the honor of NPSO Fellow upon any member in recognition of outstanding service to NPSO and its purposes.

This amendment answers several concerns recently brought before the Board. One is the question of how to deal with a member who violates the bylaws or policies of NPSO. Examples could include unauthorized political advocacy or action in the Society's name; violation of the NPSO guidelines for collecting (especially during field trip participation); or commercial dealing in threatened and endangered species. It is anticipated that counseling would continue to be the first means of problem resolution, with termination of membership being only a last resort.

Another question is honoring members and non-members who make outstanding contributions to NPSO or the purposes NPSO promotes. Many organizations have provision for honorary memberships. The concept of "NPSO Fellow" has been borrowed from the California Native Plant Society.

NPSO Awards Grant To "Plant Hunters"

The Native Plant Society of Oregon has awarded a grant of \$500 to a book-in-progress with the working title "Plant Hunters of the Pacific Northwest," a group effort to write the botanical history of Washington, Oregon, British Columbia, Idaho and Montana from 1790 to 1970. At its January 28 meeting, The NPSO state board responded to a proposal from the editors in chief of the project, Professor Emeritus Arthur R. Kruckeberg of the University of Washington and his former student, Dr. Rhoda Love of Eugene. The project has been under way for several years, and a good deal of progress has been made. The University of Washington Press has awarded a contract and asked for a draft manuscript by this April. Editors for each of the four states and one Canadian province have been chosen, and a large stable of contributors from throughout the region are busy writing.

Here in Oregon, some of the writers are: Robert Clark working on Lewis and Clark (no relation), Ed Alverson on David Douglas, John Christy on the bryologists, Mildred Detling and LeRoy Detling, Stu Garrett on Newberry, Claire Johnson on Tolmie, Marge Ettinger and Susan Harless on collectors of the Warm Spring Reservation, Susan Kephart on Peck, Frank Lang on Applegate and Jeffrey, Robin and Ken Lodewick on Penstemons, Carolyn Wright on Cusick, David Wagner on Howell, Henderson and Gorman and Rhoda Love on Suksdorf and Sweetser. New writers are joining the group regularly, so if you have a favorite Oregon botanist, please get in touch with Art or me and join this exciting project. Art and I have put together a 10-page (and expanding) Bibliography to help our writers locate primary and secondary sources. Besides writers, we could also use help in searching for appropriate early photos, drawings, letters, maps and other materials.

Art and I want to thank the NPSO for its generous grant to the "Plant Hunters" project, and look forward to hearing from any NPSO members who would like to join us.

Rhoda Love
Emerald Chapter
(503) 345-6241
e-mail: rglove@oregon.uoregon.edu

1995 NPSO/ODA Conservation Biology Internships

During the 1995 field season, the Oregon Department of Agriculture and the Native Plant Society of Oregon will once again be sponsoring internships in plant conservation biology. This program, in effect since 1990, is intended to provide an initial research experience to individuals considering biology as a career choice. Open to anyone (except previous participants), priority will be given to life science (especially botany or biology) undergraduates, recent graduates, or individuals seriously thinking of a change in career orientation towards conservation.

We are recruiting for two full-time summer interns, who will each work approximately 16 weeks. We are especially interested in anyone who can be available by early May. Interns contribute field and/or laboratory assistance to ODA/OSU scientists working on one or several projects during the summer. Interns will work primarily in plant population demography and population monitoring (dealing with the sampling of permanent plots and rare species re-establishment), and possibly plant reproductive biology.

Interns receive a summer stipend of \$2000 in addition to a trip stipend of \$15 to \$25. Extensive field work (including overnight camping) will be required, so applicants should be in good physical condition. All activities will be coordinated out of Oregon State University in Corvallis, requiring interns to live in the mid-Willamette Valley.

The last day for receipt of internship application materials is April 10, 1995. If you would like to receive information on how to apply, or if you have any other questions, please contact:

Tom Kaye or Bob Meinke
Department of Botany and Plant Pathology
Cordley Hall 2082
Oregon State University
Corvallis, OR 97331
(503) 737-2346/737-2317

1995 Annual Meeting June 16 - 18

The Portland Chapter invites you to the 1995 annual meeting at Brightwood, on the south side of Mount Hood. Overnight accommodations, meals, and food are available at many motels, campgrounds, restaurants and stores in Brightwood, Welches, Wemme, Zigzag, Rhododendron and Government Camp.

Three motels on US 26 are: Snowline (622-3137), The Oregon Ark (622-3121) and Shamrock (622-4911). An information packet including a map of the area and listings of other lodgings will be sent to each registrant.

Friday evening, exhibits and registration will be open at 5 P.M. at Mt. Hood Village in Brightwood. There will be a slide show program beginning at 7 P.M.

Saturday morning, field trips leave at 9 A.M. Meet behind the Thriftway store at Hoodland shopping center. At Mt. Hood Village, social hour begins at 5 P.M., followed by the banquet at 6:30 P.M. After dinner, new officers will be installed, and Dr. Linda Ann Vorobik will speak on "Assembling a state flora -- challenges of producing The Jepson Manual."

Sunday morning, the Board meeting will begin at 9 A.M. at Zigzag Ranger Station.

SATURDAY FIELD TRIPS FOR THE 1995 NPSO ANNUAL MEETING

All field trips will leave from behind the Thriftway store, Saturday, June 17, 9 A.M.

Please note the described length of the field trips; some are half a day, others a full day. Take lunch and beverage. Please be prepared for weather, warm or cold; take rain gear, water, boots, good mosquito repellent and sun glasses.

TRIP 1 - HIGH MEADOWS, HIGH PRAIRIE AREA: Forest Service botanist, Sue Nugent, Hood River Ranger District, will lead us to a special transition zone which supports unique plants that have evolved from influences of the western Cascades as well as those of the eastern high desert area on the high ridges and meadows between east and west. This trip will provide sweeping views of the Cascade Mountains from its open oak and pine habitat. The elevation here is 4500 to

5000 feet. There will be time and ample opportunity to enjoy strolling through contiguous meadows or to hike south to the northern fringes of the Badger Wilderness. Driving distance: R.T. about 90 miles. Easy strolling and accessibility. **ALL DAY TRIP.**

TRIP 2 - BOTANIZING BY CAR - HIGH DESERT: Enjoy the high desert along Highway 26 toward Kaneetah. We plan to stop at choice botanizing areas along the way. Special wildflowers to enjoy might include *Calochortus macrocarpus* and *Antennaria dimorpha*. **ALL DAY TRIP.** About 100 mi. R.T. Leaders: Sara Barnum and Maxine Wilson.

TRIP 3 - BALD MOUNTAIN PEAK: This 2 to 3 mi. loop goes through a typical western Cascades forest providing an opening onto a high ridge and sweeping view of Mt. Hood looming above the Sandy. Special blooms could include *Gillia capitata* and *Castilleja hispida*. Elev. gain: 900 to 1000 ft. Driving distance: 60 mi. R.T. **HALF DAY TRIP.** Leader: Carroll Dubuar.

TRIP 4 - HANGING GARDENS ON THE PACIFIC CREST TRAIL: This is an easy 3 mi. walk north from Lolo Pass on open slopes into the forest where an almost level trail leads to a series of rocky cliffs covered with many species of native plants. You may enjoy spectacular displays of *Erythronium montanum*, *Penstemon rupicola*, *Castilleja*, *Crocidium multicauli* and many others. Driving distance under 40 mi. For those wishing to continue along the trail, *Erythronium* line it most of the way to Salvation Springs, about 2 and 1/2 mi. further north. Leaders: Louise Godfrey and Esther Kennedy. **HALF DAY TRIP.**

TRIP 5 - MT. HOOD MEADOWS FROM UMBRELLA FALLS: The season permitting, we will follow a way trail to Sahali Falls through a mixed conifer forest then continue climbing to subalpine displays of early summer plants in the large open mountain meadows. Flowers to anticipate include *Anemone occidentalis*, *Calochortus subalpinus*, *Caltha biflora*, *Ranunculus* sp. and many more. Elev. gain 800 to 1000 ft. Hiking distance about 7 mi. R.T. Driving distance about 80 mi. R.T. Leader: Heather Laub, Botanist, Mt. Hood Ranger District. **ALL DAY TRIP.**

TRIP 6 - LITTLE CRATER MEADOWS: This is a unique meadow with many interesting grasses and flowers where a tiny but intensely blue minilake attracts many visitors. The meandering stream winding through the wet land also supports

a number of "flowering logs" which are most unusual. Some of the more interesting plants include *Sisyrinchium californicum*, *Botrychium simplex* and *Gentiana simplex*. No elev. gain. Driving distance about 80 mi. R.T. HALF DAY TRIP. Limit of 8 people. Leader: Lois Kemp.

TRIP 7 - HUNTER PRAIRIE: Under dual ownership of state of Oregon and BLM, this oak/pine habitat includes unique biscuit scab lands as well as wet lands and vernal ponds, Douglas fir and quaking aspen. Some of the more interesting plants include Scribner's grass, species of *Malvaceae* and *Saxifragaceae* and *Cypripedium montanum*. Hiking distance possible 4 to 6 mi. R.T. Leader: Lance Holmberg, Botanist and District Ranger, Barlow Ranger District. ALL DAY TRIP.

TRIP 8 - BLACKWOLF MEADOWS: Explore a wet meadow with *Camassia* and *Sparganium angustifolium*. We hope to see *Menyanthes trifoliata* at Anvil Lake. A short climb up High Rock completes the day with rock plants and fine views. Hiking distance 4 mi. R.T. Elev. gain 700 ft. Driving distance 80 mi. R.T. Leaders: Jan and Dave Dobak. ALL DAY TRIP.

TRIP 9 - BONNIE MEADOWS and BONNIE BUTTE: Explore west side forest and meadow, looking for *Kalmia*, *Pyrola*, orchids, *Trautvetteria* and much more. Hiking distance 4 mi. R.T. Elev. gain 400 ft. Optional extension to Boulder Lakes adds 5 mi. and 800 ft. Driving distance 70 mi. R.T. Leader: Carolyn Wright. ALL DAY TRIP.

STATE OFFICE NOMINEES

The nominating committee is pleased to offer the following candidates for the NPSO Board of Directors. Ballots are included in this issue, and must be mailed by April 15 to be counted. Ballot inserts are pre-addressed and only need be folded, stamped and taped or stapled to be mailed. Winners will be notified. Officers will begin their terms at the annual meeting in Brightwood.

PRESIDENT

BRUCE RITTENHOUSE has a B.S. from Oregon State University and an M.S. from Idaho State University. His research subject was an endemic *Astragalus* in Idaho. He is now Botanist for the Coos Bay BLM District. He was both a chapter president and state vice president of the Idaho Native Plant Society, and is currently NPSO president.

VICE PRESIDENT

VEVA STANSELL has been in NPSO since 1972 and is presently a member of the Board of Directors. She is native to Gold Beach and is a student of the interesting and challenging flora of southwestern Oregon. Veva recently retired from her Botany Tech job on Gold Beach Ranger District. Her interests include any aspect of natural history.

SECRETARY

JULIE KNUROWSKI-THIEL, a member of the Willamette Valley Chapter, is a botanist with the Salem BLM working on the Yamhill Resource Area. She has a biology degree from Western Oregon State College, and has done additional post-baccalaureate work at Oregon State. She is a founding member of the Willamette Valley Environmental Association. She enjoys teaching botany to children.

TREASURER

JEAN FRANCE has been a member of NPSO since 1991, and is current treasurer of the Portland Chapter. She is employed in sales. Jean is a Master Gardener, and has a long-time interest in education, biodiversity and conservation efforts relating to native plants.

DIRECTORS

DAVE DOBAK has been looking at flowers for at least 25 years, and has been a NPSO member since 1983. He has led field trips and given programs for the Portland and Mid-Columbia chapters. He was vice president of the Portland Chapter in 1992. Dave is an electronics engineer for Tektronix, and has served as cyberspace technoflunky for three NPSO Bulletin editors and the Membership Committee.

RHODA LOVE is a botany instructor at Lane Community College in Eugene and former state president of NPSO. She is past West-side Conservation Chair and present Conservation Co-chair for Emerald Chapter and an associate editor of *Kalmiopsis*.

KAREEN STURGEON is Professor of Biology at Linfield College where she has taught since 1981. She earned her Ph.D. from the University of Colorado in Boulder. She has done research in arctic Alaska and forest ecosystems throughout the western U.S. and has taught botany in Costa Rica and Switzerland. For over three years, she has served on the Citizen's Advisory Board for Yamhill County Parks and Recreation, with positive planning input for Charles Metsker County Park and Deer Creek County Park.

President's Column

With the political season in full tilt, let me express my concerns about the doings in Salem and Washington, D.C. The legislation being proposed is threatening one of our outstanding environmental laws, the Endangered Species Act. In January, I attended a workshop in Seattle, put on by the Endangered Species Coalition. It was very informative on what our 104th Congress is proposing. Congress seems to be attacking the ESA on three different fronts. The first is to stop ESA funding until the bill is re-authorized. Congress could delay the re-authorization and funding for implementation of the act would end in October. They also propose cutting funding to the point where no new species would be listed, no consultation would occur and the development of recovery plans and delisting packages would not be completed.

The second attack is the "Contract with America." Three items in this "contract" affect the ESA. Unfunded mandates (which has already passed the House and Senate), easing the "takings" regulations, and cost-benefit analysis. The Fifth Amendment to the Constitution says that "private property shall not be taken for public use without just compensation." The easing of "takings" regulations would make it easier for private land owners to be compensated for lost revenue because of protection of listed species (or other environmental regulations, such as the Clean Water Act). In fact, no federal court has ever found the ESA to result in a "taking" under the Fifth Amendment.

Finally, cost-benefit analysis would require the government to weigh the visible and possible future benefits against the costs of keeping the species alive and how much it would cost to protect it under the ESA. How can politicians determine the value of a species? It can't be done.

Then the ESA itself must be re-authorized. Currently, two bills have been proposed, Studds-Dingell (HR2043) the good one, and Tauzin-Fields (HR1490) the bad one. I URGE YOU TO WRITE SENATORS HATFIELD AND PACKWOOD AND YOUR CONGRESSPERSON (addresses in the February Bulletin) to support a strong re-authorization of the ESA, that is HR2043.

Unfortunately, things are worse in Salem. Many proposals have been made to change Oregon's land use laws. Most notable is Oregon's Endangered Species Act, which the Native Plant Society

was so instrumental in getting passed a few years ago. For information on state legislative happenings, call 1-800-332-2313 and ask for HB2120, HB2122, SB305 and HB2118. Space doesn't permit mentioning still others. Again, write your legislators and urge them to protect Oregon's natural resources.

I encourage NPSO members to be involved in the "Walk for the Wild" to be held in Portland on Saturday, March 11. There will be a parade and a "wall of shame" showing extinct and endangered species. Groups are asked to adopt a species and march in the parade. For more information call me, or Monica Bond at 503-222-1429.

I find it amazing that with all the positive work being done for the recovery of endangered species by many groups (environmental, ranchers, foresters, etc.) that Congress and our state legislature would change these regulations. The positives of ESA far outweigh the negatives we keep hearing about. Here is your chance to get involved and to have your voice heard. If anyone would like sample letters, I have some excellent examples.

Meanwhile, get out and enjoy the early spring wildflowers.

Bruce Rittenhouse
NPSO President

WANTED: *Mimulus tricolor*

I am a hobbyist photographer and a member of the Emerald Chapter of NPSO. Can you help me locate populations of this elusive plant? This is not a profit venture, I just need some shots for my slide collection. And, I'll send you a photo, if your tip proves successful! Week days I am at 484-2123 or fax 484-1108; evenings and weekends at 345-5380. Or write and send me a map at 2655 Olive St., Eugene, OR 97405. Thanks.

Phil Warner

Oregon White Oak Conference

On March 9, the Oregon Urban and Community Forest Council is sponsoring a conference, "Oregon White Oak in the Landscape," at Portland's World Forestry Center. There will be exhibits and discussions on planting, management and educational efforts to promote the tree. Registration is \$45. For more information call Paul Ries, ODF, 945-7391.

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 VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
 SECRETARY Julie Thiel. 6144 Stonehill Ave. S, Salem 97306; 362-2057
 TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. 58840 Bar M Lane, Adams 97810-3003; 566-2244
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 177 Ravine Dr., North Bend 97459; 756-7929
 UMPQUA VALLEY (Roseburg) Sandra Stiltner. 1963 Lookingglass Rd., Roseburg 97470; 672-5903
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Bob Ottersberg. PO Box 885, La Grande 97850; 963-6043

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Xavier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address _____

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Chapter (if known) _____

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Please make checks for dues and contributions payable to:
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Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

In this issue

Rare Plants Along State Highways	26
We Welcome New Members.	27
What's Happening In the Willamette National Forest -- Jenny Dimling.	28-29
E-mail Addresses To Be Published -- Dave Dobak.	29
Paid Volunteer Needed -- Stu Garrett.	29
Volunteers Needed For Mount Pisgah.	29
North American Native Orchid Journal.	29
Wild Salmon and Clean Drinking Water.	29
Proposed Revision of NPSO Bylaws.	30
NPSO Awards Grant To "Plant Hunters" -- Rhoda Love.	31
1995 NPSO/ODA Conservation Biology Internships.	31
1995 Annual Meeting June 16-18.	32-33
State Office Nominees.	33
President's Column -- Bruce Rittenhouse.	34
Wanted: <i>Mimulus tricolor</i> -- Phil Warner.	34
Oregon White Oak Conference.	34

NATIVE PLANT SOCIETY OF OREGON

General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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2584 NW Savier St.
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Legislative Update

I would like to introduce myself. My name is Steve Hinton and I'm the new legislative chair for NPSO. I will be trying to fill Esther McEvoy's shoes. However, Esther will stay active by guiding me through what promises to be one of the most challenging sessions in Oregon's history. Throughout Esther's tenure she has been a steady and sincere voice for NPSO on legislative issues. Her success at making NPSO an active and respected voice in Salem is evidenced by the interest in our positions throughout the legislative body. NPSO has an excellent reputation in Salem and I will do everything possible to bring our conservation ethic to an even greater audience.

The 1995 session has already presented a number of challenges. Early on, a number of resource issues were openly targeted. In their opening volley, the legislative leadership took aim at the state Endangered Species Act, a number of water issues, and almost every land-use regulation imaginable. This group apparently has a vision for Oregon that bears little resemblance to the image we crafted during the era of Tom McCall. Governor Kitzhaber has made it clear that any attempt to repeal landmark legislation will not get past his desk. However, we must all give our support in stopping these poorly conceived policies.

Some of the bitter highlights to date:

HB2122 & SB305-2 would require taxpayers to pay land owners and polluters to obey environmental laws.

HB2118, HB2588 & HB2557 would prevent our ability to make or enforce any law more stringent than federal law.

HB2120, HB2420 & HB2446 all attempt to weaken the state Endangered Species Act through procedural changes that politicize the listing process.

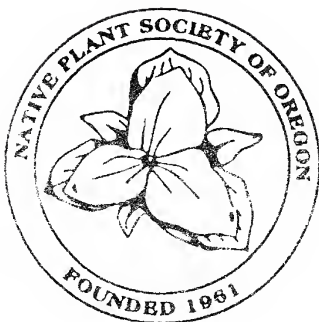
HB2306 & SB294 (among others) attempt to loosen the water allocation process.

Call the legislative information line, 1-800-332-2313, to get copies of these bills, check their status, or to contact your legislator. Apparently there will be drastic changes in state resource policy, unless we make every effort to go on record as proponents for keeping Oregon, Oregon!

Please call, write, fax or meet with your legislators and don't forget to ask questions. I encourage you to be very vocal about your support for due process with representation. Don't be afraid to be explicit with your concerns, dissent and willingness to engage anyone pretending to be a representative, but not supporting public input. Drop me a line if you have any questions, or need any help.

In truth & trust,
Steve Hinton
steveh@hevanet.com

P.S. Next Lobby Day is April 24



***Bulletin* of the Native Plant Society of Oregon**

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

April 1, Sat.

State Board Meeting: 10 A.M. Coos Bay, at Southwestern Oregon Community College (SWOCC). Directions: Southbound on 100 cross McCullough Bridge into North Bend, get in right lane, turn right at 2nd light (Virginia St.) left at 1st light after mall (at 7-Eleven) onto Broadway, get in right lane which will turn right at the Sizzler (sweeping curve) onto Newmark Blvd., turn into SWOCC campus across from Walmart and follow NPSO signs. Northbound on 101, go through Coos Bay, turn left at Ming Palace Restaurant onto Newmark Blvd., go about 2 mi. (through 4 lights) turn right at SWOCC entrance, as above. Possible field trip to Shore Acres. For more information call Bruce Rittenhouse, 756-0100 (w) or 888-9328 (h).

June 16 - 18

Fri. - Sun.

Annual Meeting: Hosted by the Portland Chapter, at Brightwood, near Mt. Hood. Dr. Linda Ann Vorobik, NPSO member for many years, formerly editor of the Bulletin and chief illustrator of The Jepson Manual, will be the speaker at the Saturday evening banquet. Her topic will be "Assembling a state flora -- challenges of producing The Jepson Manual." Details and registration form in the March Bulletin.

Chapter News

Blue Mountain

April 3, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Berta Youtie of The Nature Conservancy will show slides of her trip to Africa.

April 23, Sun.

Field Trip: Jerry Baker will lead to the Thornhollow area along the Umatilla River. Meet at the NE corner of Safeway parking lot at 9 A.M.

April 29, Sat.

Field Trip: Marilyn Leuallen will show us some interesting areas on her property on Cabbage Hill. Meet at NE corner of Safeway parking lot at 9 A.M.

May 1, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Bruce Barnes will demonstrate the computer polyclave expert system plant key he developed for the plants of the Umatilla National Forest.

- May 6, Sat. **Field Trip:** Harris Park and the South Fork of the Walla Walla River, southeast of Milton-Freewater. Leader is Don Rydrich. Meet, NE Corner, Safeway lot, 9 A.M.
- May 7, Sun. **Field Trip:** Annual Bar-M Walkabout. For information, and to sign up, contact BMCC.
- May 20-21
Sat. - Sun. **Work Days:** At. Boardman RNA (Sat.) and Lindsay Prairie (Sun.), with Berta Youtie, The Nature Conservancy. Car-pool from Pendleton Safeway at 8 A.M. each day. To camp nearby or to meet there, contact Berta in La Grande.

Corvallis

- April 10, Mon. **Meeting:** 7:30 P.M., room 2087, Cordley Hall, OSU campus. Loren Russell will present "Spring in the Illinois Valley."
- April 22-23
Sat. - Sun. **Field Trip:** Loren Russell leads an overnight trip to Eight Dollar Mt. in Josephine County. Contact Loren Russell, 752-7558, for details.
- May 13, Sat. **Field Trip:** 9 A.M. - 4:30 P.M. to Alsea Falls. Dr. Dave Wagner will lead to look at bryophytes. He will provide a bryophyte species list for the area, compiled in the 1930's and 1940's by Ethel Sanborn. Car-pool from OSU parking lot, 26th and Monroe (across from the Beanery). For information call Dick Brainerd at 758-4500.

Emerald

- April 15, Sat. **Special Meeting:** Lane County Rare and Endangered Plant update. If interested in participating, call Bruce Newhouse, 343-2364, for information on time and place.
- April 22, Sat. **Field Trip:** To Rattlesnake Butte, The Nature Conservancy preserve west of the Willamette Valley near Monroe. This site is the only known remnant of a Lemmon's needlegrass/Oregon white oak savanna community. Leave from S. Eugene H.S., 10 A.M. Call trip leader Ed Alverson, 687-5586, for more information.
- April 24, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. Z(right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. John Cissel, director of the Cascade Center for Ecosystem Management, will speak about research and monitoring projects in the Willamette National Forest.
- April 29-30
Sat. - Sun. **Field Trip:** We invite any NPSOer (WNPS too) to join us at Lake Shasta, CA., to see newly-discovered Shasta snow wreath. Dress for poison oak. Meet at Water's Gulch trailhead (take Packer's Bay exit off I-5 at Lake Shasta) at 2 P.M. on Saturday. Night at campground or Weed or Redding motel. Home Sunday. E-mail or call Rhoda Love for location map: rglove@oregon.edu or (503) 345-6241.

High Desert

- April 22-23
Sat.-Sun. **Field Trip:** Klamath Marsh Wildlife Refuge. This overnight trip will be to a federal refuge between Bend and Klamath Falls where we will see and help in efforts to restore damaged forested, grassland, and wetland ecosystems. It will be a combination work-party and fun with some easy hiking. We will leave early from Bend and meet

others at the refuge. Call Stu Garrett, 389-6981 evenings, for more information.

- April 25, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, in Bend. Linda Rexroat, Range Ecologist, The Nature Conservancy, will discuss restoration ecology at Sycan Marsh.
- May 20, Sat. **Field Trip:** Ecologist Maret Pajutee, Sisters Ranger District, Deschutes National Forest, will take us on a tour. Highlight will be the fire ecology of the Metolius Research Natural Area where several prescribed burns have been done. Also featured will be Maret's original research into the roles of insects and invertebrates in this pine forest ecosystem. She will point out wildflowers in this unique old-growth ecosystem. This promises to be a fascinating and unusual trip. Leave from Sisters Ranger District headquarters, Sisters, at 9 A.M. Call Maret for details, 549-7727 days, 549-3082 eves.

Mid-Columbia

- April 5, Wed. **Meeting:** 7:30 P.M., Mosier School. Ed Alverson, a land steward for The Nature Conservancy, will give an overview of western Oregon Nature Conservancy preserves.
- April 23, Sun. **Wildflower Show:** The 21st annual Wildflower Show. Mosier School, 10 - 4 P.M.
- May 3, Wed. **Meeting:** 7:30 P.M., Mosier School. Fred Hall, USFS, gives a presentation on plants and soils.
- May 6, Sat. **Field Trip:** To Dallas Mountain Road, with ethnobotanist Eugene Hunn. Meet at Hood River Inn, 8:45 A.M. Limited to 20; sign up with Barbara Robinson, 478-3293. Trip co-sponsored with Portland Chapter, which see for details.

North Coast

- April 8, Sat. **Field Trip:** Meet at 10 A.M., Tillamook PUD, 1115 Pacific, for joint trip with the Portland Chapter, to Kilchis Park. See *Dodecatheon austrofrigidum* and *Erythronium revolutum*. Moderate hike. Take lunch and water. Leader: Jim Winslow, 842-4131.
- April 22, Sat. **Field Trip:** Meet at 10 A.M., at the Bay Ocean Spit parking lot, for first survey of vegetation on the spit. Trip leader is Jim Winslow, 842-4131.
- April 25, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. NPSO legislative chair, Steve Hinton, will discuss resource and environmental issues facing the 1995 legislative session. For more information call Christine Stanley, 436-0161.

Portland

- April 1, Sat. **Field Trip:** 9 A.M. Columbia Gorge "Cherry Orchard" site with Barbara Robinson, 478-3293, of Mid-Columbia Chapter. Very scenic 6.5 mi. hike, 1,400 ft. elev. gain. Meet at ODOT, 60th and Glisan, or 10:15 A.M., Hood River Inn parking lot.
- April 2, Sun. **Field Trip:** 9 A.M. Fanno Creek Greenway with Doug Smithey, 590-3421, of Fans of Fanno, and Mary Vogel, 645-1992, of NPSO. Inspect some recent restoration work along this easy 5 mi. R.T. from Greenway Park to Englewood Park. Take a wetlands field guide, since we pass through several. Meet at Fanno House east of Hall Blvd. on Creekside (historic house in an office park!). Progress exit from Hwy. 217.
- April 8, Sat. **Field Trip:** 8 A.M. Trask River, with North Coast Chapter, led by Jim Winslow,

842-2246. Hike 1 mi. along Trask River to see shooting stars and pink fawn lilies and other Trask sites by car. Then hike 3 mi. through Kilchis River old growth with Mary Vogel. Call Mary Vogel by April 1, if you want to stay overnight with a North Coast Chapter member. Meet at Tanasbourne Target at 185th off Sunset Hwy.

- April 9, Sun. **Field Trip:** 9 A.M.- 1 P.M. Peninsula Crossing Trail through N. Portland and Smith and Bybee Lakes, with Portland Parks' Jim Sjulín, 823-5122, Metro's Jim Morgan, 797-1727 and Cathedral Park neighborhood assoc. reps. Clarice White and Jim Barnes. See the madrones of Mock Crest. Come with your ideas for native plant restoration along the proposed trail site -- never-built Carey Blvd. Then explore a 2,000 acre natural area, home to beavers, herons, hawks, waterfowl, songbirds, turtles and bald eagles. Meet at Geneva Ave. of N. Fessenden St. to car-pool to start of hike. Binoculars recommended for lakes.
- April 11, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Professor Keith Karoly, Reed College Botany Dept., will talk about "Lupines, Lilies and Meadow-rue: Studies in Plant Mating Systems Ecology." The meeting room will be open at 6:30 P.M., for socializing.
- April 15, Sat. **Field Trip:** 8:30 A.M. Burlington Bottoms Wetland, with Sue Beilke, 657-2129 (W), wildlife biologist, ODFW, to look at interaction of wetlands plants and wildlife on this rare opportunity to enter this 417 acre site. Walk about 3 mi. We will also look at proposed Sauvie Island to Beaverton/Hillsboro trailhead site where Mary Vogel, NPSO, will cover some issues for this 7 Mi. rail-to-trail conversion. Binoculars/spotting scopes and knee boots recommended for the Bottoms. Meet at Sauvie Island parking lot at bottom of bridge to car-pool. Max: 20 people. Call 657-2129 to register.
- April 16, Sun. **Field Trip:** Noon. Clackamas River Greenway CANOE TRIP with botanist Mart Hughes, 659-8509, and Gordon Jones, 653-6449, of Friends of the Clackamas. Botanize shoreline and explore riparian structure of mature fir forest islands and oak uplands along the proposed North Bank of the Clackamas Trail. Call for meeting place, what to take and to volunteer canoe space to share. You need some canoe experience on this trip.
- April 22, Sat. **Field Trip:** 7:30 A.M. East bank, Deschutes River, north of Sherar's Bridge. Jan and Dave Dobak, 248-9242, will lead a car botanizing trip along the river access road with minimum walking. Driving: 225 mi. R.T. Return to Portland 6 P.M. or later. Meet at Lewis & Clark State Park off I-84.
- April 23, Sun. **Field Trip:** 9 A.M. Weldon Wagon Trail. Krista Thie will share her vast knowledge of medicinal and other uses of flowers, trees, grasses on this leisurely 3 mi. R.T., on a historic trail through oak woodland and grassy bald. Expect *Sisyrinchium* (blue-eyed grass) and *Fritillaria pudica* (yellow bells). Meet at ODOT, 60th & NE Glisan.
- April 29, Sat. **Field Trip:** 9 A.M. Castilleja Hill & nearby areas with Barbara Robinson, 478-3293, of Mid-Columbia Chapter. 2 1/2 mi. 400 ft. elev. gain, followed by optional 2 mi. +/- hike, for those wanting a more rigorous day. Dress for poison oak and take preventive lotion. Lupine, balsamroot, Indian paintbrush. Meet at ODOT, 60th and NE Glisan. Second meeting place: 10:15 at Hood River Inn parking lot.
- April 30, Sun. **Field Trip:** 2 P.M. Jackson Bottoms wetland and Dairy Creek addition, with Pat Willis and Jan Curry, 681-6206. On this 3-4 mi. walk we will see wapatos, cattails, beggarticks, water plantains, etc. Mink, river otter and 144 species of birds have been seen in this 650 acre area too! Binoculars recommended for the Bottoms. Meet at Target, at 185th off Sunset Hwy.
- May 6, Sat. **Field Trip:** 7:30 A.M. Dallas Mt. Rd. with ethnobotanist Eugene Hunn, Professor of

Anthropology, U. of O., author of "Nch'i - Wana: The Big River." Joint trip with Mid-Columbia Chapter to explore "Plants the Indians Used." Barbara Robinson, 478-3292, or Mary Vogel, 645-1992. Meet at ODOT, 60th and NE Glisan, or at 8:45 A.M. at Hood River Inn. Limited to 20; sign up with Barbara Robinson, (503) 478-3292.

May 7, Sun. **Field Trip:** 9 A.M. Beaver Creek Canyon with Paul Rabe, 667-4101, president of its friends' group, and Mary Vogel, 645-1992, NPSO. Wear quick-drying clothes and foot gear you plant to get wet; part of trip may be through the creek; also take change of clothes. User-made path is only about 1/2 mi. long. Meet at ODOT, 60th and NE Glisan, or, at 9:30 A.M. at the Thriftway, Troutdale Rd. and Stark.

May 14, Sun. **Field Trip:** 9:45 A.M. Sandy River Gorge. See the Diack Tract with a representative of The Nature Conservancy, 3 mi., 300 ft. elev. gain; then look at some of the *Open Space* ballot measure target areas, with a representative of Friends of the Sandy. Hear some of the fascinating history of this state scenic waterway. Meet at ODOT, 60th and NE Glisan. Limit 20. Call The Nature Conservancy, 228-9561, to register.

Siskiyou

April 8, Sat. **Field Trip:** Upper Table Rock hike led by Barbara Mumblo. This is a part of the Nature Conservancy's program of hikes on the Table Rocks. Please call 770-2349 to reserve a space for this hike. Meet at Upper Table Rock trailhead, at 10 A.M.

April 20, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSOC, Ashland. Lucile Housley, ethnobotanist and Lakeview BLM botanist, will present "Plant Use by Native Americans -- Past and Present."

April 22-23
Sat. - Sun. **Earth Day Celebration:** Celebrating Our Siskiyou Heritage -- 25th Anniversary of Earth Day. An exhibition at the Merlin Armory in Merlin (northwest of Grants Pass. The Siskiyou National Forest, Medford BLM and Rogue River National Forest, with a variety of partners will host a large exhibition celebrating the natural and cultural heritage of the Siskiyou Mountains region. It will feature the "Windows on the Past" display, plus 20-30 more booths featuring cultural heritage, natural history and conservation displays particular to our unique region.

April 29-30
Sat. - Sun. **Wildflower Show:** The Shady Cove Wildflower Show at Shady Cove Elementary School. (Shady Cove is north of Medford on Hwy. 62.

South Coast

April 8, Sat. **Field Trip:** Lemmingsworth Gulch to see *Darlingtonia* bogs with hopes of seeing *Pinguicula vulgaris* and *Viola primulifolia*. Meet at the Brookings Fred Meyer, along highway 101 at 10 A.M.

Umpqua Valley

April 8, Sat. **Field Trip:** Up Little River to look at bryophytes. Meet for 8 A.M. departure at the BLM parking lot, 777 NW Garden Valley Blvd. For more information, call Russ Holmes, trip leader, at 672-4635.

April 13, Thurs. **Meeting:** 7 P.M. in room 310, Douglas County Courthouse. Jack Hausotter will give a program on early spring mushrooms -- the morels and lorchels. For more information, call Jack Hausotter at 863-4344.

Willamette Valley

- April 1, Sat. **Field Trip:** Join the Portland Chapter (which see) for a Columbia Gorge field trip. Meet at 7:45 A.M., NW corner of the shopping center parking lot at North River Road and Lakeview Dr. in Keizer. For more information call Wilbur Bluhm, 393-2934.
- April 17, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Susan Kephart will give a slide show, "The Conservation Biology of the Cascade Head Catchfly." This is the last regular monthly meeting until September.
- April 22, Sat. **Field Trip:** Mill Creek in Polk County. Easy hike. Meet at S. Salem K-Mart parking lot on Mission St. at 8:30 A.M. For information call trip leader Clint Urey, 393-0886.

Wm. Cusick

Officers: Barbara Russell is the new president.

- April 8, Sat. **Field Trip:** Tree planting and wildflower sign installation at the Rebarrow Forest Stewardship Project. Meet, 8 A.M., at the Forest and Range Laboratory, Gekeler and C. Aves., La Grande, for car-pooling. Call Bob Ottersberg, 963-6043, for more information.
- April 19, Wed. **Meeting:** 7 P.M. Features Paula Brooks with a slide show presentation of special hike in the Elkhorn Mountains. Forest and Range Laboratory, Gekeler and C Aves., La Grande.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.

For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

Field Trip Leader Suggestions

With the return of the wildflowers, field trip season has swung into full gear. I'd like to offer a few suggestions that I believe will increase learning, active participation, enjoyment and safety on our field trips -- and hence increase our membership.

1. Take a map/and or written directions if getting to the trailhead is likely to be complicated. Make people feel that we want their participation and will do what we can to facilitate it.
2. Do make sure people put on a name tag (supplied) and that they introduce themselves to the group -- at least their name and where they heard about the trip. The more we can create a sense of community among participants, the more they will participate.
3. Do make sure everyone signs the release form (contact Portland Chapter). Those who have checked that they are non-members should be asked if they would like an application. One of my primary goals for field trips is that they build a broad and informed membership.
4. Don't botanize in the parking lot. People are often cold, stiff and anxious to move when arriving at the vehicle destination. First get well away from the noise of traffic, the smell of exhausts or the view of the road or parking lot.
5. Don't cover more than one or two plants at any one stop. Avoid information overload. Folks tend to remember more if you give them less at one time.
6. Make sure you are fully stopped and the entire group has caught up before talking about a plant. If you have a lot of ground and plants to cover, ask one or two people you have spotted to repeat, at intervals, what you have said to those in back of them.
7. Share more than just the name of the plant, if you can, and also give the common name. (We want beginners to come back.) Suggestions of things to talk about: soil type, elevation and climate the plant grows in; the community of plants it grows with; its role in the plant community; the butterflies, insects, birds and other wildlife that use it; ethnobotanical and modern uses of the plant -- for medicine, food, crafts, landscaping,

etc.; its seeds/spores; ease and method of propagation; mycorrhizal associations; its folklore; abundance or rarity; ecological issues, etc., etc., etc.

8. Share some of the history of the area you are visiting. If you have time, do a little research on the area ahead of time. The USFS and other public agencies can often be helpful here.
9. Ask the field trip participants to share what they know too. Questions will get them started. Active rather than passive participation creates a sense of community. On the way back to the trailhead, ask them to share what they learned earlier in the day. Repetition helps!
10. Each leader should carry rain gear and a well-equipped first aid kit, and the rest of the ten essentials for safe back country travel. They are: rain gear, sun gear, whistle, map and compass, flashlight with extra batteries and bulb, pocket knife, waterproof matches, emergency blanket, emergency food and clothing. Take extra rain and sun gear if you have it to lend, signing it out by taking names and phone numbers. Tell participants you have brought it and ask if anyone has forgotten anything; this helps participants to become more safety conscious.
11. Share your suggestions on leading better field trips with your chapter's field trip coordinator.

Mary Vogel
Vice President for Field Trips
Portland Chapter

Paid Volunteer Needed

NPSO needs a volunteer to serve as liaison to the Environmental Federation of Oregon. This is one of the premier umbrella green groups in the state. It is associated with the United Way campaign. The NPSO board will pay \$1000/year to a NPSO member who will attend meetings in Portland and activities associated with EFO. Some community involvement and coordination with chapters will be needed. This is an excellent opportunity to get involved in important statewide issues and really make a difference. Averages six to eight hours a month. Call Stu Garrett, 389-6981, evenings, for details.

Botany Scholarships Available

The Jean Davis Memorial Fund is again offering a scholarship for the 1995-96 school year for the amount of \$1,000.

This scholarship will be given to a student attending an Oregon college, and enrolled in plant systematics or plant ecology. Students must have completed two years of satisfactory college work and be enrolled full time.

The NPSO bylaws for this scholarship state that all applications are to be in by April 1, 1995. However, since this is a late notice, the deadline for entries has been extended to April 30, 1995, with the recipient being chosen by June 1, 1995.

To receive an application, please call, or write, to:

Harriet Schoppert
11265 Phantom Lane
Stayton, Oregon 97383
(503) 859-2613

Harriet Schoppert
Committee Chair

Oregon Flora Newsletter

The Oregon Flora Newsletter was inaugurated in mid-January and distributed to about 235 people. The newsletter reports news about the Oregon Flora Project and will include a broad range of articles relating to names and distributions of plants in Oregon. If you would like to be added to (or removed from) the mailing list, please send your name and address by mail or e-mail to:

Scott Sundberg
Department of Botany & Plant Pathology
Oregon State University
Cordley Hall 2082
Corvallis, OR 97331-2902
e-mail: sundbers@bcc.orst.edu
telephone: (503) 737-4106

Wanted

Addresses of Herbaria in Oregon

The Oregon Flora Project is seeking information on herbaria in Oregon. We would like to contact curators of collections containing over 500 mounted and labeled specimens. If you know of a herbarium that we are not already aware of, please send a postcard with the herbarium name, and the name, address, and daytime telephone number of the herbarium curator or responsible individual (if known) to Scott Sundberg (address in note on Oregon Flora Newsletter). Please also include your name and address.

We are aware of herbaria at the following institutions: Douglas County Museum of History and Natural History, Forestry and Range Sciences Lab (La Grande), Portland State University, Eastern Oregon State College, Warm Springs Indian Reservation, Roseburg District Bureau of Land Management, Crater Lake National Park, Lakeview District BLM, John Day Fossil Beds National Monument, Lane Community College, Linfield Community College, and Oregon State University (including University of Oregon and Willamette University collections).

Scott Sundberg

Restore Our Highways

According to Brian Newby, Landscape Supervisor for the Oregon Department of Transportation, even ODOT and the federal Department of Transportation are making an effort toward having more native plants in the public landscape. Brian is asking NPSO for a list of all wildflowers in Oregon as well as information on reliable seed sources. Please send him your ideas and/or references for such a list. He has at least three propagation greenhouses where he is propagating native plants for highway plantings -- especially salal. I feel that it is extremely important that he hear from those of us who would like to see our highway median strips and borders support more native plants and hence native wildlife. His address and phone number are: Brian Newby, Landscape Supervisor, ODOT, 9637 SW 35th Dr., Portland, OR 97219.

Mary Vogel
Portland Chapter

Two North American Plant Hunters: Expressions of Delight at Discovery of Something New

"I beheld a small patch of beautiful low growing deep rose-colored plants and because of its beauty I started running toward it and dropped to my knees...I had never seen anything so beautiful before...I believed it was new."

So wrote Lilla Leach in her journal in 1938 following the discovery of *Kalmiopsis leachiana* on June 14, 1930, near Pearsoll Peak, Curry County. This delightful journal entry was published in MAZAMA XX (12), December, 1983.

Lilla Leach was almost effusive, at best unrestrained, in her delight with the beauty of the low, rose-colored patch, which she immediately believed to be a new species, unknown before to North American taxonomy.

To find such expressed emotion by recognized plant hunters or taxonomists (Lilla and her husband John Leach were plant hunters), the reader should try to locate original sources, which, as the following instance shows, may require long term persistence in herbaria and specialized libraries.

André Michaux, French botanist and North American explorer, was walking with Indian guides from coastal South Carolina north toward an Appalachian range, in December, 1788, in order to gather transplantable cuttings and dormant plant parts. In the dusk of a rainy day, he saw under dripping branches some rosettes of leaves. He quickly realized that the unfamiliar leaves belonged to something new. That night by firelight in an Indian lodge he made sufficient notes in his diary that he, as well as later hunters, could again locate the new plants.

From the Michaux diary: "I did not find it on any other mountain. The savages told me the leaves have a nice taste...and give forth a pleasant odor when pinched. This I demonstrated effectually for myself."

The French plant explorer's diary was later lost and escaped the notice of scholars for 99 years, until two American botanists rediscovered the long-buried botanical information. The clever and experienced taxonomist, Asa Gray of Harvard, described the flowering parts from the little knowledge of the vegetative organs André Michaux had

left in Paris and which had reached the library of the American Philosophical Society in Philadelphia. The equally well known Boston botanist, Professor C.S. Sargent of the Arnold Arboretum, found the elusive plant of Michaux in the Cherokee country of western North Carolina. Dr. Asa Gray, without having seen the flower and its reproductive parts, named it *Shortia galacifolia*. Its genus he named for a contemporary Kentucky botanist.

In the 1930's, a much later wandering plantsman out of Washington, D.C. went to the Carolinas in search of the primrose-like *Shortia*. He found it only in the Blue Ridge hills of Virginia. This was the naturalist-writer, Donald C. Peattie. In his book, *The Road of a Naturalist* (1941), he wrote, in enviable prose, an answer to the question of how A. Michaux and Lilla Leach, in their own centuries, on their respective distant edges of the North American continent, each knew so well that they had found some new, previously undescribed plant. Peattie claimed it was an intuitive "seventh sense -- for the look, stance and feel of a plant;" therefore the expression of great emotion at the moment of discovery is justified. The specific name of this *Shortia*, *S. galacifolia*, Torrey N. Gray, refers to leaves like a previously known plant genus, *Galax*.

Shortia, of the small plant family *Diapensiaceae*, is not really rare, just widely distributed and scattered within its range, as is *Kalmiopsis* (meaning *Kalmia*).

My thanks to Aaron Liston, Assistant Professor, O.S.U. Herbarium, Department of Botany, for his help in confirmation of currently accepted names, and to Rhoda Love, of Eugene, a friendly advisor-referee.

Edward P. Thatcher, Professor Emeritus
Eugene, Oregon

Natural History Seminars

Algae, lichens, liverworts, sedges, rushes, grasses and mosses are just a few of the subjects covered in seminars this summer on the Maine coast. For more information, call or write to:

Eagle Hill Field Research Station
Dyer Bay Road, PO Box 9
Steuben, Maine 04680-0009
207-546-2821, FAX -3042
Internet EAGLHILL@MAINE.MAINE.EDU

NATURE CONSERVANCY SETS MEMORIAL FOR NPSO MEMBER

The Nature Conservancy of Oregon has set up a memorial internship at Cascade Head for Alfred Krampert. Mr. Krampert was a long time member of the North Coast Chapter, serving for many years as treasurer. Before moving to Oregon, he was a trustee of the Wisconsin Chapter of The Nature Conservancy and was instrumental in preserving the 300-acre Chiwaukee Prairie south of Kenosha, Wisconsin, one of the few remaining native prairies in Wisconsin. In 1991, the Al Krampert Trail was dedicated in his honor at Chiwaukee Prairie.

Donations for the Al Krampert Cascade Head Field Ecologist Intern can be made to The Nature Conservancy of Oregon, 1205 NW 25th Avenue, Portland, Oregon 97210. Please note on the check or in a memo that it is for the Al Krampert memorial.

Jim Winslow
North Coast Chapter

The 1995 Glide Wildflower Show

It is on the 29th and 30th of April, from 9 A.M. to 5 P.M. (photographers only from 8 - 9 A.M.) at the Glide Community Center, Highway 138, in Glide, Oregon.

This year's show is sponsored by the Glide Community Club. Admission is free, but donations will be accepted to defray expenses. A floral book and identification guide will be available for a nominal charge. Food and beverages will be sold from the kitchen.

The show features hundreds of wildflowers from southwestern Oregon, identified by both common and scientific names. There will also be tree and shrub specimens, lichens, bryophytes, ferns, a special display of "weeds," and photographic displays of rare, threatened and endangered species. Slide shows on "The Ferns of Oregon" and "The Mystery of Wildflowers" will be given on both days.

For more information, call Abbey Rosso, 498-2263, or write to PO Box 235, Idleld Park, Oregon 97447.

New Plant Identification System

A plant key/identification program has been produced for the 1235 plants of the Umatilla National Forest, including grasses, sedges, rushes, trees, shrubs, ferns, horsetails, Botrychium and, of course, herbs. It is a computer polyclave system, which is much faster and easier to use than the standard dichotomous keys, and takes much less knowledge of plants to be able to use it. A minimum of botanical terms are employed, and help screens provide ready definitions. The user simply punches in those characteristics of the plant which are most obvious (choosing from menus of over 80 different characteristics), and the computer sorts for the plant with that combination. Usually, only four or five characteristics are all that are needed, such as leaf shape, plant height, flower color and leaf surface. Most plants can be identified with just a few keystrokes and in less than one minute. The program runs on any IBM type computer, 286 or higher, and is condensed enough to run on a palmtop computer in the field.

Bruce Barnes authored the program, and plans to be at the NPSO annual meeting to demonstrate it for anyone who may be interested. For information, Bruce can be contacted at 278-2222 (O), 276-5547 (H), 731 NW 5th, Pendleton, OR 97801, or dbarnes@ednet1.osl.or.gov.

Desert Conference XVII "Breaking Barriers/New Visions"

It is hosted by the Oregon Natural Desert Association, at the Malheur Field Station, near Burns, Oregon. And it will take place on the 27th, 28th, 29th and 30th of April (Thursday evening through Sunday noon).

Activities: Thursday - Registration.
Friday - Additional registration, field trips, slide program.
Saturday and Sunday - Speaker presentations, panel discussions, workshops (breakout sessions), evening socializing and entertainment.

Registration: Early registration is recommended, because attendance is limited. For information, or to request a brochure/registration form, call ONDA at (503) 385-6908, or write to: Desert Conference XVII, c/o Oregon Natural Desert Association, 16 NW Kansas, Bend, OR 97701.

STATE OFFICERS

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. 58840 Bar M Lane, Adams 97810-3003; 566-2244
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan SeEVERS. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) Sandra Stiltner. 1963 Lookingglass Rd., Roseburg 97470; 672-5903
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

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 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Xavier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ -

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
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Jean Davis Memorial Scholarship Fund. \$ _____
 Leighton Ho Memorial Field Botany Award Fund. \$ _____
 Rare and Endangered Plant Fund. \$ _____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

In this issue

Field Trip Leader Suggestions -- Mary Vogel.	43
Paid Volunteer Needed.	43
Botany Scholarships Available -- Harriet Schoppert.	44
Oregon Flora Newsletter -- Scott Sundberg.	44
Wanted: Addresses of Herbaria in Oregon -- Scott Sundberg.	44
Restore Our Highways -- Mary Vogel.	44
Two North American Plant Hunters -- Edward P. Thatcher.	45
Natural History Seminars.	45
Nature Conservancy Sets Memorial for NPSO Member.	46
The 1995 Glide Wildflower Show.	46
New Plant Identification System -- Bruce Barnes.	46
Desert Conference XVII.	46

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NATIVE PLANT SOCIETY OF OREGON

General Business Address: P. O. Box 902, Eugene, OR 97440

or correspond directly with the Officers and Committee Chairs listed on the inside back page.

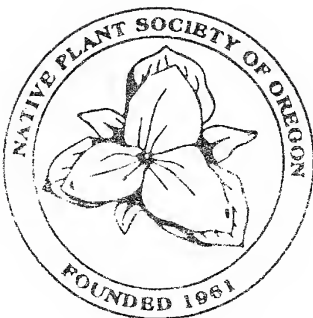
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Jan Dobak, Membership Chair
2584 NW Savier St.
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

June 16 - 18
Fri. - Sun.

Annual Meeting: Hosted by the Portland Chapter, at Brightwood, near Mt. Hood. Dr. Linda Ann Vorobik, NPSO member for many years, formerly editor of the Bulletin and chief illustrator of The Jepson Manual, will be the speaker at the Saturday evening banquet. Her topic will be "Assembling a state flora -- challenges of producing The Jepson Manual." Details and registration form in the March Bulletin.

Chapter News

Blue Mountain

- May 1, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Bruce Barnes will demonstrate the computer polyclave expert system plant key he developed for the plants of the Umatilla National Forest.
- May 6, Sat. **Field Trip:** Harris Park and the South Fork of the Walla Walla River, southeast of Milton-Freewater. Leader is Don Rydrich. Meet at NE corner of Safeway lot, 9 A.M.
- May 7, Sun. **Field Trip:** Annual Bar-M Walkabout. For information, and to sign up, contact BMCC.
- May 20 - 21
Sat. - Sun. **Work Days:** At Boardman RNA (Sat.) and Lindsay Prairie (Sun.), with Berta Youtie, The Nature Conservancy. Car-pool from Pendleton Safeway at 8 A.M. each day. To camp nearby, or to meet there, contact Berta in La Grande.
- June 3, Sat. **Field Trip:** Westminster Woods, near Emigrant Springs, to assist in compiling plant data to be used in the master plan for the camp's development, to protect sensitive areas.
- June 10, Sat. **Field Trip:** Frazier Campground, area east of Ukiah. Led by Jerry Baker. Meet at NE corner of Safeway parking lot, at 8 A.M.

Corvallis

- May 8, Mon. **Meeting:** 7:30 P.M., room 2087 Cordley Hall, OSU campus. Dr. Steven Strauss will speak on "Field Tests of Genetically Engineered Poplars for Use in Pacific Northwest Fiber Farms: Goals and Biological Safety Considerations." He will discuss his recently formed consortium with forest industries to promote the genetic engineering of poplars. Goals, technical hurdles and environmental considerations will be addressed. Special attention will be given to field tests, and measures planned to avoid significant impacts on native populations. As a scientifically oriented and conservation minded organization, Dr. Strauss seeks the perspective of NPSO members.
- May 13, Sat. **Field Trip:** 9 A.M. - 4:30 P.M. to Alsea Falls. Dr. Dave Wagner will lead to look at bryophytes. He will provide a bryophyte species list for the area, compiled in the 1930's and 1940's by Ethel Sanborn. Car-pool from OSU parking lot, 26th and Monroe (across from the Beanery). For information call Dick Brainerd at 758-4500.

Emerald

- May 13, Sat. **Field Trip:** To Clay Creek Trail in the Coast Range. Trip led by BLM botanist Kathy Pendergrass. Site has a rocky outcrop with old growth forest and fire history. Meet at S. Eugene H.S. parking lot, 9 A.M. Call Kathy, 683-3889, for information.
- May 21, Sun. **Wildflower Show:** Mt. Pisgah Arboretum. 10 A.M. - 4 P.M.
- May 22, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Kathy Pendergrass will speak on her thesis topic, "Effects of Prescribed Burning on Willamette Valley Wetlands." (If you are babysitting a sedge, bring it back).

High Desert

- May 20, Sat. **Field Trip:** Ecologist Maret Pajutee, Sisters Ranger District, Deschutes National Forest, will take us on a tour. Highlight will be the fire ecology of the Metolius Research Natural Area where several prescribed burns have been done. Also featured will be Maret's original research into the roles of insects and invertebrates in this pine forest ecosystem. She will point out wildflowers in this unique old-growth ecosystem. This promises to be a fascinating and unusual trip. Leave from Sisters Ranger District headquarters, Sisters, at 9 A.M. Call Maret for details, 549-7727 days, 549-3082 eves.
- June 24, Sat. **Field Trip:** Deschutes River at Cline Falls. We will travel to several areas along the river to assist the State Parks Department, City of Redmond Parks, and others in a survey for Estes wormwood (*Artemisia ludoviciana* ssp. *estesi*), a rare plant that grows only along the Deschutes River in central Oregon. We will learn about plans to protect this species. Call trip leader Stu Garrett, 389-6981 eves., for details.
- July 8, Sat. **Field Trip:** Metolius Basin. Members of the California Native Plant Society will be in central Oregon and Cindi O'Neil will take them to some of our favorite spots in the Black Butte/Sisters area. Perhaps a hike to the top of Black Butte will be part of the trip. Call Cindi O'Neil, 389-3085 evenings, for information.
- July 22 - 23
Sat. - Sun. **Field Trip:** Augur Creek Ancient Forest. This is the last, best stand of old growth ponderosa pine left in central Oregon. It has been the source of a continuing struggle for protection. The Forest Service has agreed to set aside part of this magnificent area

as a Research Natural Area. We will have an overnight campout to visit this special spot. Call trip leader Bill Hopkins, 389-3330 evenings, for details.

- Aug. 5, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the high Cascades west of Bend. 6 mi. R.T., moderate to strenuous hike, with 1,700 ft. elev. gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hikers are limited to 12. **Pre-registration is required!** Call trip leader Stu Garrett, 389-6981 evenings, to sign up.

Mid-Columbia

- May 3, Wed. **Meeting:** 7:30 P.M. Mosier School. Fred Hall, USFS, will make a presentation on plants and soils.
- May 6, Sat. **Field Trip:** To Dalles Mountain Road, with ethnobotanist Eugene Hunn. Meet at Hood River Inn, 8:45 A.M. Limited to 20; sign up with Barbara Robinson, 478-3293. Trip co-sponsored with Portland Chapter, which see for details. After the trip, Eugene Hunn will be at Jerry Igo's for potluck after the trip; all welcome
- June 7, Wed. **Meeting:** 7:30 P.M. Mosier School. Carol Wilson, a professor of botany at Whitman College, will talk about her research on native irises.

North Coast

- May 6, Sat. **Field Trip:** To Mt. Hebo to see *Erythronium elegans*. Easy hiking. Meet at 10 A.M. at Tillamook Bay Community College parking lot, 2510 1st St. Call Jim Winslow, 842-4131, for more information.
- May 21, Sun. **Field Trip:** To Saddle Mt. to see early plants, including *Douglasia dodecatheon*. Moderate to strenuous hiking. Meet at 9 A.M. at the trailhead parking lot. Call Christine Stanley, 436-0161, for more information.
- May 30, Tues. **Meeting:** 7 P.M. Location and program to be announced. Call Christine Stanley, 436-0161, for information.

Portland

- May 6, Sat. **Field Trip:** 7:30 A.M. Dalles Mt. Rd., with ethnobotanist Eugene Hunn, Professor of Anthropology, U. of W., author of "Nch'i - Wana: The Big River." Joint trip with Mid-Columbia Chapter to explore "Plants the Indians Used." Barbara Robinson, 478-3293, for information. Meet at ODOT, 60th and NE Glisan, or at 8:45 A.M. at Hood River Inn. Limited to 20; sign up with Barbara Robinson, (503) 478-3293.
- May 7, Sun. **Field Trip:** 9 A.M. Beaver Creek Canyon with Paul Rabe, 667-4101, president of its friends' group, and Mary Vogel, 645-1992, NPSO. Wear quick-drying clothes and foot gear you plan to get wet; part of trip may be through creek; also take change of clothes. User-made path is only about 1/2 mi. long. Meet at ODOT, 60th and NE Glisan, or 9:30 A.M. at the Thriftway, Troutdale Rd. and Stark.
- May 9, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Berta Youtie will give a talk on the national parks of Tanzania and Namibia. The room will be open at 6:30 for socializing.
- May 14, Sun. **Field Trip:** 9:45 A.M. Sandy River Gorge. See the Diack Tract with a representative of The Nature Conservancy, 3 mi., 300 ft. elev. gain; then look at some of the *Open Space* ballot measure target areas, with a representative of Friends of the Sandy. Hear

some fascinating history of this state scenic waterway. Meet at ODOT, 60th and NE Glisan. Limit 20. Call The Nature Conservancy, 228-9561, to register.

- May 20, Sat. **Field Trip:** 9 A.M. - 3 P.M. Rock Creek & Bronson Creek watersheds (Washington County). Meet at PCC Rock Creek campus in ESD & Visitor Parking Lot. Dick Hollenbeck, PCC Landscape Program, will show us the Rock Creek drainage. Afternoon leader for Bronson Creek is Dr. Wes Jarrell, Soil Scientist, Oregon Graduate Institute. Wetlands, bogs and upland forest habitats. Contact Mary Vogel, 645-1992.
- May 21, Sun. **Field Trip:** Columbia Hills Natural area, a Washington State preserve. Hike 5 mi. crosscountry over grassland. Elev. gain 1200 ft., R.T. drive 175 mi. We will record what we see enroute -- species of grass, blooming stages of flowers, etc. Led by Russ Jolley. Contact person: Dee White, 227-2581. Meet at ODOT, 60th & NE Glisan, 8 A.M., or Hood River Inn parking lot (exit 64) 9:15 A.M.
- May 24, Wed. **Field Trip Committee Meeting:** 7 P.M. To plan trips for the balance of the year. 7461 SW 184th Pl., Aloha. Call Mike McKeag, 642-3965, for directions and/or if you are interested.
- May 27 - 29
Sat. - Mon. **Field Trip:** Join us in southwestern Oregon over Memorial Day for new flowers and places. Contact person: Barbara Linden, 697-7068. She has information and brochures on the area.
- June 3, Sat. **Field Trip:** Beginner flower I.D. trip to Oneonta Creek trail in the Columbia Gorge. Forest flowers and ferns. Expert botanists can help newcomers. Leisurely hike, with moderate elev. gain. Drive is 60 mi. R.T. Meet, 9 A.M., ODOT, 60th & NE Glisan, or 10 A.M., restroom at Ainsworth State Park picnic area. Take water, lunch, dress for weather. Contact person: Charlene Holzwarth, 284-3444.

Siskiyou

- May 18, Thurs. **Meeting:** 7:30 P.M., room 171, Science Building, SOSC, Ashland. "Marvelous Mariposas." Nancy Fredericks will talk about her research on mariposas in southern Oregon.
- May 20, Sat. **Field Trip:** "Celebrating Wildflowers." Wayne Rolle will lead to the Klamath River Canyon. Meet at 8:30 A.M. at the Ashland Ranger Station, or, at 9 A.M. at the Klamath River rest area on I-5. Call Wayne, 858-2274 days, for more information.
- June 3, Sat. **Field Trip:** Barbara Mumblo will lead this trip to the New London Trail to Stein Butte. Moderate to strenuous hiking. Meet at the Star Ranger Station at 9 A.M. Call Barbara, 899-1812 days, for more information.

South Coast

- May 20, Sat. **Field Trip:** Come with us to see unique Snow Camp in the Siskiyou Mountains. This area has plants from three different physiographic provinces (Cascades, Klamath and Coast Range). Meet at Gold Beach Ranger District in Gold Beach on Highway 101 at 9:30 A.M. Call Bruce Rittenhouse, 888-9328, for more information.

Umpqua Valley

- May 11, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Please bring plants to discuss and identify. Call Mildred Thiele, 673-5397, for information.
- May 20, Sat. **Field Trip:** To the Dunning Ranch. Meet at the BLM parking lot, 777 NW Garden Valley Blvd., at 7:45 A.M., for car-pooling, with 8 A.M. departure. Call trip leader Ted Schattenkerk, 679-6953, for information.

Willamette Valley

- May, 13, Sat. **Field Trip:** Yaquina Head on Oregon coast, to develop plant list. Wilbur Bluhm and Julie Thiel will lead. Easy to moderate hike. Meet at 7:45, Safeway, West Salem parking lot. For more information call Wilbur Bluhm, 393-2934.
- May 20, Sat. **Field Trip:** Baskett Slough National Wildlife Reserve, near Rickreall, Polk County. Moderate Hike. Glenn and Barbara Halliday will lead. Meet at 8 A.M., Safeway, West Salem parking lot. For more information call the Hallidays at 371-1025.
- Meeting:** No more regular monthly meetings until September.

Wm. Cusick

- May 6, Sat. **Work Party:** Help eradicate knapweed at Tom McCall Preserve in the Columbia River Gorge. Meet at Rowena Crest at 9:30 A.M.
- May 6, Sat. **Work Party:** This is a Rebarrow Stewardship Project work day. We will install species labels along the interpretive trail through the William Cusick plot. This will be followed by a potluck dinner at the commons shelter. Meet at the Forest and Range Lab at 9 A.M. for car-pooling, or come to the site anytime during the day. Call Bob Ottersberg, 963-6043, for directions.
- May 13, Sat. **Field Trip:** This is a day to hike William Cusick Creek, which is a drainage south of Union that turns into the Thief Valley Reservoir. We will walk through a short stretch of canyon which goes through sagebrush shrub steppe and it should be at its peak for spring flowers. Meet at Thief Valley Reservoir turnoff, between Telocaset and Medical Springs, at 10 A.M. Call Bob Ottersberg, 963-6043, for more information.
- May 17, Wed. **Field Trip:** Alan Johnson and Bob Ottersberg will lead a walking tour of selected sites in La Grande, where native vegetation has been used in landscaping. The tour will start at the circular drive by the library of Eastern Oregon State College at 5:30 P.M. and go until dark.
- June 3, Sat. **Work Party:** Help eradicate noxious knapweed at the Tom McCall Preserve in the Columbia River Gorge. Meet at Rowena Crest at 9:30 A.M.
- June 10 & 11
Sat. & Sun. **Work Party:** You are invited to hike 6 mi. downhill in a spectacular riparian canyon. Help us pull noxious weeds along the way. On Sunday, view sensitive species on the ridge. Camp for the weekend in the Clear Lake Ridge Natural Area. Contact Berta Youtie at 962-3903.
- June 10, Sat. **Field Trip:** 9 A.M. We plan to continue construction of the Cusick Interpretive Trail. Trail excavation, laying in the gravel bed and final grading along the trail will complete the first stage of construction. We will also begin working on the pioneer style landscaping around the old cabin.

- June 17, Sat. **Work Party:** Please help protect the rare pink thelypody that only grows in the Baker Valley. Meet at the North Powder Cafe at 9 A.M.
- June 24, Sat. **Field Trip:** Biologists Katie Boula, Phil Howell and Kari Yanskey will spend the morning discussing the ecology of an aspen stand near Ukiah. We will get an in-depth look at the vegetation, as well as at the birds and other wildlife attracted to this diverse setting. In the afternoon, we will have an opportunity to take part in ecological monitoring of the aspen population. Meet at the Safeway parking lot in La Grande at 8 A.M.
- June 24 - 25
Sat. - Sun. **Field Trip:** Visit Blue Mountain Natural Resource Demonstration Areas in Grant County. Tour The Nature Conservancy's Middle Fork John Day Preserve and the Morning Hill Tree Farm in Bear Valley. Camp and barbecue on Saturday night at the Preserve. Call Berta, 962-3903, or the Barkers, 542-2525.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public. All kinds of contributions are welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If it is not original, cite the source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations with the article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. The use of a modem is not possible at this time. For further details, consult the editor.

ORIGINALS: Submissions are not returned, unless requested.

President's Column

Well spring has sprung, and I hope you are getting out to enjoy the early spring wildflowers. First of all I want to thank the individuals and groups who submitted Cost Share proposals. We had eight proposals submitted from a wide range of partners. The Board decided to fund three proposals (native plant brochure for a park in La Grande, an interpretive sign for a state park, and native plant restoration at a Nature Conservancy preserve) each for \$500. This leaves an additional \$500 which can be awarded this September. If anyone would like to apply, get proposals in by September.

Second, if you are interested in attending the "Conservation and Management of Oregon's Native Flora" symposium, I would encourage you to register early (registration form included in Bulletin). The room only holds 200 people and this includes speakers. So, in actuality, there are only spots for 170 registrants. Also, if you are interested in presenting a paper, contact Tom Kaye at 503-737-2346. He will gladly accept abstracts and titles of presentations. Enclosed in this Bulletin is a tentative agenda for the symposium.

Bruce Rittenhouse
NPSO President

Paid Volunteer Needed

NPSO needs a volunteer to serve as our liaison to the Environmental Federation of Oregon. This is one of the premier umbrella green groups in the state. It is associated with the United Way campaign. The NPSO Board will pay \$1000/year to an NPSO member who wishes to attend meetings in Portland and activities associated with EFO. Some community involvement and coordination with other chapters will be needed. This is an excellent opportunity to get involved in important statewide issues and **really** make a difference. It would average six to eight hours a month. Call Stu Garrett, 389-6981 evenings, for details.

Loveliest of trees, the cherry now
Is hung with bloom along the bough.

We Welcome New Members Joining From 2/5/95 to 4/6/95

Blue Mountain

Umatilla Confederated Tribes

Corvallis

Deborah Clark
Kimberly Davis
Beth Deimling
Steve DiFazio
Patti Haggerty
Karen M. Lange
Al Shay
Mark Wilson

Emerald

Stanton A. Cook

High Desert

Joanne Cleland
Maret Pajutee
David M. Schroeder

Mid-Columbia

Columbia Gorge Master Gardener Association
Janet Turner
Heidrun von Buschow

Portland

Dean Apostol and Tami Katz
Carol Chesarek
Amy S. deVargas
Gregg Everhart
Mary and Donald Heinricher
Valerie Johnstone
Carl Koontz and Joanne Dutra
Mark Krueger and Marti Simon
Ernest and Barbara Lappala
Cheryl Neal
Mary A. Parr
Sally Quimby
Susan Schouten
Anne Storrs
Violet Watson
Jim Weigand

Siskiyou

Bob Baker
Richard Callagan
Linda Mazzu
Brad Tong

Barbara Ullian

Willamette Valley

Craig and Susan Markham
John D. Miller

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W. 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455. \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory list names, addresses and telephone numbers of members, as of April, 1995. Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

And stands about the woodland ride
Wearing white for Eastertide.

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Name five native plants with Latin names that commemorate our state, such as *Sedum oreganum* or *Sedum oregonense*. Old synonyms like *Aster oregonum* and *Carex oregonensis* do not count. (Hint: answers involving oregano will be disqualified.) The first person to submit correct scientific names will win a prize.

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330

The answer to the February puzzle was mountain
avens (*Dyas octopetala*).

Now of my threescore years and ten,
Twenty will not come again,
And take from seventy springs a score,
It only leaves me fifty more.

And since to look at things in bloom
Fifty springs are little room,
About the woodlands I will go

What's the Latest Name For That Plant?

In the process of assembling a new checklist of the vascular plants of Oregon, we will be evaluating many proposed changes affecting the naming and classification of the state's flora. Although relative stability of scientific names is an important goal of taxonomy, one should not expect the classification system to be set in concrete. Changes in plant names often reflect an improved knowledge of relationships, for example by the use of sophisticated new research techniques. The International Code of Botanical Nomenclature, containing rules about spelling variations, priority of publication, and legitimacy of names, also may alter the names of plants.

For this article I have selected three examples of recent proposals to change some Oregon plant names. One of these affects the familiar genus *Disporum* (fairy-bells) of the family Liliaceae. In a recent publication (Z.K. Shinwari, et. al., *Taxon* 43:353-366, 1994), convincing new evidence is presented that favors separating all the American species of *Disporum* from those found in eastern Asia. If this is done, the New World species take the genus name *Prosartes*; in Oregon we have *Prosartes hookeri* Torr., *P. smithii* (Hook.) Utech, Shinwari & Kawano, and *P. trachycarpa* S. Watson. There are differences between *Disporum* and *Prosartes* in leaf venation patterns, hairiness, stigmatic lobing and fruit color. The generic separation is supported by molecular studies comparing the sequence of nucleotide bases of a gene in the chloroplast chromosome. This sophisticated genetic analysis confirms that *Disporum*'s closest relative is *Uvularia*, an eastern North American genus, whereas *Prosartes* is closely allied to *Streptopus*, not to *Disporum*. The revised classification is thus well justified, although it means we must learn new names for Oregon's three "*Disporum*" species.

The opposite of generic splitting, as in the above case, occurs when taxonomists combine two or more previously separate genera into one. Several examples of this type of change can be found by comparing Peck's Manual of the Higher Plants of Oregon (2nd edition, 1961) with The Jepson Manual -- Higher Plants of California (1993). In the family Onagraceae, for instance, *Boisduvalia* and *Zauschneria* have now been merged with *Epilobium*. Another change, affecting one of Oregon's

rarest species, *Heterogaura heterandra* (Torr.) Coville, results from combining this genus with *Clarkia*, the well known "farewell-to-spring." According to Harlan Lewis and Peter Raven (Madroño 39:163-169, 1992), *Heterogaura* shares numerous traits with two species-groups in *Clarkia*, and its chloroplast DNA is remarkably similar to that of *Clarkia dudleyana*. They rename the species *Clarkia heterandra* and place it in a unique section of that genus, based on its unusual nut-like fruits. This species has been collected only once in Oregon, in 1888, near the town of Woodville (now Rogue River), Jackson County. In Peck's Manual it was misnamed as "*Gaura heterantha*." Although the species is widespread in California, its present status in Oregon is unknown.

A change of name at the species level that I discussed previously (*Douglasia* 18:11-13, 1994) concerns the common bunchberry, *Cornus canadensis* L. That name is used in The Jepson Manual, although research by Canadian botanists in 1965 had suggested that Oregon and California plants belong to a separate species, *Cornus unalaschensis* Ledeb. Recently Z.E. Murrell (*Systematic Botany* 19:539-556, 1994) published a detailed morphological, multivariate study of bunchberries throughout North America. *Cornus unalaschensis* stands out as a tetraploid species of hybrid origin, distinct from both its parental taxa *C. canadensis* and *C. suecica* L. All but one of the Oregon populations he sampled belong to *C. unalaschensis* (one site in the Siskiyou contained backcrosses to *C. canadensis*). Bunchberries are taxonomically "difficult" due to a long history of hybridization, but Murrell's work supports changing the name of Oregon's plants to *C. unalaschensis*. I will reserve additional examples of new Oregon plant names for discussion in future issues of the newsletter.

Kenton L. Chambers

Reprinted from Oregon Flora Newsletter,
vol. 1, no. 1, January, 1995.
Photograph omitted.

To see the cherry hung with snow.

Conservation and Management Of Oregon's Native Flora Tentative Symposium Agenda

Wednesday November 15

11:00 - 1:00 Registration
1:00 Opening Remarks
1:05 Keynote Address: Dr. Reed Noss, Ecologist
and Conservation Biologist.

Theme 1: Ecology, Management and Conservation of Oregon's Rare Plant Species.

2:00 - 5:30 Contributed Papers.
6:00 No Host Bar
7:00 Banquet - Ramada Inn.
8:00 Slide Show --Speaker TBA.

Thursday November 16

Theme 2: Bringing Back the Natives: Restoration of Oregon's Native Plant Communities.

8:30 Keynote Speaker: Dr. Linda McMahan,
Berry Botanic Garden.
9:00 - 12:00 Contributed Papers.
12:00 - 1:00 Lunch (on your own).

Theme 3: Plant Systematics, Ecology, and Biogeography of Oregon's Native Plants and Communities.

1:00 Keynote Speaker: Dr. Ken Chambers,
Oregon State University.
1:30 - 5:30 Contributed Papers.
7:00 - 8:00 Update on the Oregon Flora Project,
Scott Sundberg TBA.
7:00 - 9:00 OSU Herbarium Open House,
refreshments provided.

Friday November 17

Theme 4: The 'Lower' World of Oregon's Floral Diversity - Bryophytes, Lichens and Fungi.

8:30 Keynote Speaker: Dr. David Wagner,
Northwest Botanical Institute.
9:00 - 12:00 Contributed Papers.
12:00 Closing Remarks.

Saturday November 18

Optional Field Trips.

REGISTRATION FORM CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA, NOVEMBER 15 - 17, 1995

Name _____

Organization _____

Address _____
City _____ State _____ Zip _____

Registration Fees Amount

Registration (NPSO members \$50, non-members \$60) _____

Special Student Rate (\$30) _____

Banquet Specify: meat _____ or vegetarian _____ (\$13) _____

Donation \$25 \$50 \$75 \$100 Other _____

TOTAL _____

Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) Sandra Stiltner. 1963 Lookingglass Rd., Roseburg 97470; 672-5903
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
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 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
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Jean Davis Memorial Scholarship Fund. \$_____
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 Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

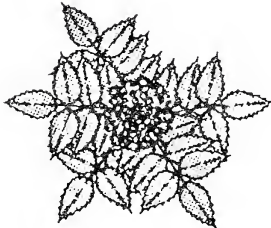
In this issue

President's Column -- Bruce Rittenhouse.	55
We Welcome New Members.	55
Paid Volunteer Needed.	55
NPSO Items For Sale.	56
The Plant Puzzle.	56
What's the Latest Name For That Plant? -- Kenton L. Chambers.	57
Conservation and Management of Oregon's Native Flora (Agenda and Registration).	58

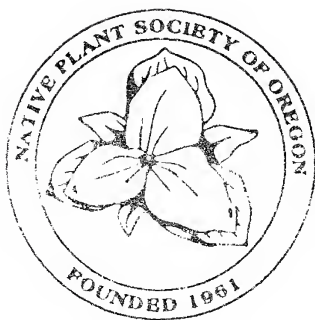
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General Business Address: P. O. Box 902, Eugene, OR 97440
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Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

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JUNE 1995

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State News

June 16-18
Fri. - Sun.

Annual Meeting: Hosted by the Portland Chapter, at Brightwood near Mt. Hood. Dr. Linda Ann Vorobik, NPSO member for many years, formerly editor of the Bulletin and chief illustrator of The Jepson Manual, will be the speaker at the Saturday evening banquet. Her topic will be "Assembling a state flora -- challenges of producing The Jepson Manual." Details and registration form were in the March Bulletin.

September

State Board Meeting: Date and place undetermined at this time.

Chapter News

Blue Mountain

Meeting: No meetings in the summer. (Please attend the NPSO annual meeting).

June 3, Sat.

Field Trip: Westminster Woods, near Emigrant Springs, to assist in compiling plant data to be used in the master plan for the camp's development, to protect sensitive areas.

June 10, Sat.

Field Trip: Frazier Campground, area east of Ukiah. Led by Jerry Baker. Meet at NE corner of the Safeway parking lot, at 8 A.M.

Corvallis

Meeting: No meetings until October, but watch this space for field trips.
(Please attend the NPSO annual meeting).

Emerald

June 3, Sat.

Field Trip: To the Oregon Country Fair site along the Long Tom River, with Phil Warner, 345-5380. Special plant: *Triteleia howellii*. Meet at S. Eugene H.S. parking lot at 10 A.M.

Meeting: No meeting in June. (Please attend the NPSO annual meeting).

June 17, Sat. **Field Trip:** Olallie Ridge Trail. A joint Obsidian/NPSO trip led by Dave Predeek, retired, McKenzie District, WNF. Approximately 7 mi. R.T. hike. Meet at S. Eugene H.S. parking lot, 8 A.M. Call Dave, 345-5531, for more information.

June 24, Sat. **Field Trip:** Dr. David Wagner, 342-4169, will lead us along the North Fork, Smith River, to see *Epipactis gigantea*, the chatterbox orchid, and other delights. Trip includes driving circuit on forest roads. Meet at S. Eugene H.S. parking lot, 8 A.M.

High Desert

Meeting: No meetings until September. (Please attend the NPSO annual meeting).

June 24, Sat. **Field Trip:** Deschutes River at Cline Falls. We will travel to several areas along the river to assist the State Parks Department, City of Redmond Parks, and others in a survey for Estes wormwood (*Artemisia ludoviciana* ssp. *estesi*), a rare plant that grows only along the Deschutes River in central Oregon. We will learn about plans to protect this species. Call trip leader Stu Garrett, 389-6981 evenings, for details.

July 8, Sat. **Field Trip:** Metolius Basin. Members of the California Native Plant Society will be in central Oregon and Cindi O'Neil will take them to some of our favorite spots in the Black Butte/Sisters area. Perhaps a hike to the top of Black Butte will be part of the trip. Call Cindi O'Neil, 389-3085 evenings, for information.

July 22 - 23
Sat. - Sun. **Field Trip:** Augur Creek Ancient Forest. This is the last, best stand of old growth ponderosa pine left in central Oregon. It has been the source of a continuing struggle for protection. The Forest Service has agreed to set aside part of this magnificent area as a Research Natural Area. We will have an overnight campout to visit this special spot. Call trip leader Bill Hopkins, 389-3330 evenings, for details.

Aug. 5, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the high Cascades west of Bend. 6 mi. R.T., moderate to strenuous hike, with 1,700 ft. elev. gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hikers are limited to 12. **Pre-registration is required!** Call trip leader Stu Garrett, 389-6981 evenings, to sign up.

Mid-Columbia

June 7, Wed. **Meeting:** 7:30 P.M. Mosier School. Carol Wilson, a professor of botany at Whitman College, will talk about her research on native irises.

North Coast

Meeting: No meeting in June. (Please attend the NPSO annual meeting).

June 17, Sat. **Field Trip:** Ledbetter Point, at Ledbetter State Park and National Wildlife Refuge, on Long Beach Peninsula, in Washington. Take Wash. Hwy. 101 north to Hwy. 103 at Seaview, Wash. Continue north on 103 to Ledbetter State Park. Meet at 10 A.M. in northernmost parking lot of the Park. Moderate hiking to sand dunes, fresh and salt-water marshes, to examine plants unique to these areas. Possibly see *Sidalcea hendersonii*. Take lunch, dress for potential rain/mosquitoes. For directions and more information call trip leader, botanist Kathleen Sayce, at 206-665-5292.

Portland

Officers: New officers are: Sue Allen, president; Mike McKeag, vice president for field trips; Maya Muir, vice president for programs; Marvel Gillespie, secretary; Jean France, treasurer.

- June 3, Sat. **Field Trip:** Beginner flower I.D. trip to Oneonta Creek trail in the Columbia Gorge. Forest flowers and ferns. Expert botanists can help newcomers. Leisurely hike, with moderate elev. gain. Drive is 60 mi. R.T. Meet, 9 A.M., ODOT, 60th & NE Glisan, or 10 A.M., restroom at Ainsworth State Park picnic area. Take water, lunch, dress for weather. Contact person: Charlene Holzwarth, 284-3444.
- June 11, Sun. **Field Trip:** Visit vernal ponds in Horsethief Lake State Park (on the Washington side of the Columbia River near the Dalles Dam) with Russ Jolley. Hike 2 mi. R.T., elev. gain 200 ft. Stop at the Washington end of the Dalles Bridge, en route, to find *Cleome lutea*. On the way home, stop to visit a vernal pond on national forest land along the Dalles Mt. road. Driving: 174 mi. R.T. Meet at 8 A.M., ODOT, 60 & NE Glisan, or 9:15 A.M., Hood River Inn parking lot (exit 64) Contact Dee White, 227-2581, for more information.
- June 13, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Linda Hardie will show and discuss some of the floral treasures of The Nature Conservancy reserves in Oregon. The meeting room will open at 6:30 for socializing.
- June 24, Sat. **Field Trip:** See one of the most colorful displays of alpine wildflowers, at Iron Mountain, in the Cascades., with Wilbur Bluhm, 293-2934. Great views of both Cascade ranges from 5500 ft. summit in the Old Cascades. Graded trail, 800 ft. elev. gain, 2 mi. R.T. (Optional route: 1 mi. up and 2 mi. down, for those who wish.) Take lunch, 10 essentials. Equip for day hike in alpine terrain. Joint trip with Willamette Valley (Salem) Chapter. Meet: S. Salem K-Mart at 8:00. (Take I-5 south to N. Santiam Hwy./Mission St. exit. K-Mart about 1 mi. west on Mission). To car-pool from Portland area, meet Mike McKeag, 642-3965, at 7:00, Tualatin Fred Meyer (just off I-5 at Tualatin exit).

Siskiyou

- June 3, Sat. **Field Trip:** Barbara Mumblo will lead this trip to the New London Trail to Stein Butte. Moderate to strenuous hiking. Meet at the Star Ranger Station at 9 A.M. Call Barbara, 899-1812 days, for more information.

Meeting: No meeting in June. (Please attend the NPSO annual meeting).

South Coast

- July 15, Sat. **Field Trip:** Roman Nose Mountain and Kentucky Falls Trail. Meet at Reedsport Safeway, on Hwy. 101, 9 A.M. Call Bruce Rittenhouse, 888-9328, for information.

Umpqua Valley

Officers: Richard H. Sommer, president; Allan Romeril, vice president; Russ Holmes, secretary/treasurer.

- June 8, Thurs. **Meeting:** Picnic, 6:30 P.M., at Powell Point-Tyee, opposite Myrtle Island RNA, on the Umpqua River. Come anytime after 3 P.M. to enjoy the river and its inhabitants. BBQ chicken and drinks provided. Call Mildred Thiele, 673-5397, for information.

June 24, Sat. **Field Trip:** Wild Rose Point, at 5296 ft. elev., up the N. Umpqua River. Meet at the BLM parking lot, 777 NW Garden Valley Blvd., at 7:45 A.M., for car-pooling, with 8 A.M. departure. Call trip leader Allan Romeril, 673-4194, for more information.

Willamette Valley

Meeting: No meetings until September. (Please attend the NPSO annual meeting).

Officers: Anyone willing to be president, vice president or secretary of our Chapter should call me, Mark Quistad, 399-9680, and leave a message if I am not there. Now I have an answering machine, it should be easier to reach me. Thank you.

June 3, Sat. **Field Trip:** Clackamas iris (*Iris tenuis*) field trip. Easy hike. Meet at 8 A.M., at the S. Salem K-Mart parking lot, Mission and 25th Sts. SE. Call trip leader Wilbur Bluhm, 393-2934, for details.

June 24, Sat. **Field Trip:** Iron Mountain in "Old Cascades," with Portland Chapter, for one of best mountain wildflower shows. Moderate hike, about 5 mi. R.T. Meet at 8 A.M. S. Salem K-Mart parking lot, 25th and Mission Sts. SE. Call Wilbur Bluhm, trip leader, 393-2934, for details.

July 1, Sat. **Field Trip:** Marion/Ann Lakes, at middle elevation in Cascade Mountains. Hike moderate, about 5 mi. R.T. Meet at 8 A.M., S. Salem K-Mart parking lot, 25th and Mission Sts. SE. Call trip leader Wilbur Bluhm, 393-2934, for more information.

Wm. Cusick

Meeting: No meeting in June. (Please attend the NPSO annual meeting).

June 3, Sat. **Work Party:** Help eradicate noxious knapweed at the Tom McCall Preserve in the Columbia River Gorge. Meet at Rowena Crest at 9:30 A.M.

June 10 & 11
Sat. & Sun. **Work Party:** You are invited to hike 6 mi. downhill in a spectacular riparian canyon. Help us pull noxious weeds along the way. On Sunday, view sensitive species on the ridge. Camp for the weekend in the Clear Lake Ridge Natural Area. Contact Berta Youtie at 962-3903.

June 10, Sat. **Field Trip:** 9 A.M. We plan to continue construction of the Cusick Interpretive Trail. Trail excavation, laying in the gravel bed and final grading along the trail will complete the first stage of construction. We will also begin working on the pioneer style landscaping around the old cabin.

June 17, Sat. **Work Party:** Please help protect the rare pink thelypody that only grows in the Baker Valley. Meet at the North Powder Cafe at 9 A.M.

June 24, Sat. **Field Trip:** Biologists Katie Boula, Phil Howell and Kari Yanskey will spend the morning discussing the ecology of an aspen stand near Ukiah. We will get an in-depth look at the vegetation, as well as at the birds and other wildlife attracted to this diverse setting. In the afternoon, we will have an opportunity to take part in ecological monitoring of the aspen population. Meet at the Safeway parking lot in La Grande at 8 A.M.

June 24 - 25
Sat. - Sun. **Field Trip:** Visit Blue Mountain Natural Resource Demonstration Areas in Grant

County. Tour The Nature Conservancy's Middle Fork John Day Preserve and the Morning Hill Tree Farm in Bear Valley. Camp and barbecue on Saturday night at the Preserve. Call Berta, 962-3903, or the Barkers, 542-2525.

July 8, Sat.

Field Trip: Ladd Marsh wetlands tour. We plan to observe some of the last remnants of Grande Ronde Valley floor plant communities. We hope to compile a species list as we go, that can be used by ODFW in management of this area. Meet at the Forest and Range Lab parking lot, 8 A.M. Call Bob Ottersberg, 963-6043, for information.

July 28 - 30
Fri. - Sun.

Field Trip: Alpine wildflowers in the Wallowas. Paula Brooks will lead this trip into Frances Lake to look at the unique alpine and sub-alpine vegetation that occurs with limestone and marble. Trip will start in Lostine on Friday morning. Prepare for backpack camping in the wilderness. Call Paula, 963-2195, to reserve a place, since wilderness groups are limited to 12 people.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly, as a service to members and the public.

All kinds of contributions are welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If it is not original, cite the source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest," by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.

For further details, consult the editor.

ORIGINALS: Submissions are not returned, unless requested.

President's Column

After much thought, I regrettably must resign my position as state president of the NPSO. With increased work commitments, the time to organize the upcoming symposium, and family commitments, I need to relinquish my office at this time. I am unable to perform the duties as NPSO president at the level I expect, and continue to do everything else. I am fully committed to the upcoming symposium this November, and as it draws near I see it taking more time. I will stay in office until July 15, or until a replacement is found. I have enjoyed my time as NPSO president, and will continue to support NPSO in its activities.

This coming summer there will be a debate on the Endangered Species Act in Congress. There are some early reports that a bill has been drafted by lawyers for timber, mining and grazing interests which will effectively "gut the act," making it difficult to protect listed species. I encourage all of you to stay informed, and to write your congressperson supporting a strong ESA.

One other item I would like to address is our membership. For the last few years our membership numbers have been relatively static. I encourage every NPSO member to try and recruit one new member before the year is over. I know of many people who are interested in becoming members but have never been aware of the NPSO.

I hope everyone is getting out and enjoying the wildflowers. It should be a banner year with all the precipitation we have had (at least on the coast).

Bruce Rittenhouse
NPSO President

Membership Directory Published

NPSO's 1995 Membership Directory was mailed in early May. Anyone who paid for a Directory but did not receive one should call or write the Membership Committee.

A few additional Directories were printed, and are available from the Membership Committee for two dollars.

Oregon Flora Project News

The past three months have been an active period for the Oregon Flora Project. In January we received a generous grant of \$2000 from the Native Plant Society of Oregon. Other notable activities included formation of the Checklist Advisory Board, planning for an Oregon vascular plant atlas, invitations to outside contributors to the Checklist, and work on the Checklist draft. Several botanists from outside the Checklist group are preparing treatment of families, and most families have been assigned.

The Checklist database now has 4349 accepted taxon names (species, subspecies and varieties) and 868 synonyms, and continues to change nearly daily. The number of accepted taxon names has decreased over the past few months, partly due to the removal of redundant entries and general cleaning up of the list, but the number of synonyms has increased with the submittal of treatments of several small families and 51 genera of Asteraceae.

The Checklist Advisory Board has been recently formed. People on the Board will help primarily by reviewing draft treatments in the Checklist, or will be involved in the project in other ways.

Meetings have been held to explore possibilities of producing an atlas of Oregon vascular plants using a database of locality information. We have approached the Douglas County flora group and the Lane County checklist group and several individuals to see if there is interest in such a project. Although details of the project have not been worked out, the response has been generally positive. A tentative database structure has been developed, and methods for gathering data are being explored.

Scott Sundberg

(Reprinted from: Oregon Flora Newsletter, Volume 1, number 2, April, 1995, page 9)

"...up's the word; and a world grows greener"

The Elkhorn Mountains The Other Botanical Wonderland of Northeastern Oregon

When people think of northeastern Oregon and wildflowers, they probably first think of the Wallowa Mountains, or Hell's Canyon. Although these are both beautiful and amazing places in their own right, there is another equally awesome botanical wonderland that is worth a visit, the Elkhorn Mountains.

The Elkhorn Mountains are a little explored range that is part of the larger geographic area known as the Blue Mountains. The Elkhorns were originally an island arc in the Pacific Ocean millions of years ago. Those islands collided with the mainland; the resulting uplift created mountains composed of granite, limestone and metamorphic rocks. In addition, the area was heavily glaciated during the ice age. The highest peak is Rock Creek Butte at an elevation of 9,106 feet. The northeastern facing flank of the Elkhorns has a wet and cool climate that supports many species of plants that are more normally found in the Cascade Mountains. The southwestern facing flank is generally much warmer and drier. It supports species typical of the southern Blue Mountains. The high peaks and open, rocky slopes are home to many sub-alpine species of plants that are also found in the Wallowa and/or Rocky Mountains. The many bogs, springs and creeks offer unspoiled riparian areas that support many interesting water-loving plants. Most of the area is not currently grazed by domestic ungulates. Baker City obtains its water from the Elkhorns. It is so pure there is no need of filtration. The combination of climate and geology provides habitat for several species of rare plants. The plants discussed below are just a sampling of the species that can be found in the area.

Species generally found only in the Cascades

The moist northern-facing slopes and abundance of ungrazed springs, seeps and creeks provide good habitat for several species of plants that are fairly uncommon in the Blue Mountains, but very common in the Cascades. These species include:

Pacific yew (*Taxus brevifolia*) and fool's huckleberry (*Menziesia ferruginea*) are found along some of the creeks and moist areas on the lower slopes of the Elkhorns. These species are also found in the Wallowa Mountains, and in the more northern Blue Mountains, but they are near the

southern edge of their range for the Blues here.

Cascade azalea (*Rhododendron albiflorum*) is only found in a few spots in the Elkhorns. It is not found in the Wallawas, and there are no other sites in the Blue Mountains. This species is common in wet areas of the Cascades, and is also found in a few areas of Montana.

Typical Blue Mountain forested habitats

The dry, south-facing slopes and many rocky ridges and outcrops provide habitat for common species of plants that are typical of the Ponderosa pine and dry Douglas fir plant association types. Some of these include:

heart-leaf arnica (*Arnica cordifolia*)
pinegrass (*Calamagrostis rubescens*)
tailcup lupine (*Lupinus caudatus*)
elk sedge (*Carex geyeri*)
sagebrush buttercup (*Ranunculus glaberrimus*)
grass-widow (*Sisyrinchium inflatum*)
fawn lily (*Erythronium grandiflorum*)
shrubby penstemon (*Penstemon fruticosus*)

Sub-alpine habitats

The open, rocky slopes typically found at high elevation support many pretty and interesting species. These include:

white-bark pine (*Pinus albicaulis*)
timberline buttercup (*Ranunculus eschscholtzii*)
little-flowered penstemon (*Penstemon procerus formosus*)
Jacob's ladder or skunk-leaved polemonium (*Polemonium pulcherrimum*)
silky phacelia (*Phacelia sericea*)
red stonecrop (*Sedum roseum*)
rhexia-leaved paintbrush (*Castilleja rhexifolia*)
glandular paintbrush (*Castilleja glandulifera*)
coiled parrot's beak (*Pedicularis contorta*)
alpine springbeauty (*Claytonia megarhiza bellidifolia*)

Riparian areas and wet meadows

The extensive wet meadows, and unspoiled streams support the following species:

Large mountain monkey-flower (*Mimulus tilingii*)
Lewis's monkey-flower (*Mimulus lewisii*)
Case's corydalis (*Corydalis caseana* var. *cusickii*)
elkslip or marsh marigold (*Caltha leptosepala*)
Sitka burnet (*Sanguisorba sitchensis*)
small bur-reed (*Sparganium minimum*)
swamp onion (*Allium validum*)

Ferns and fern allies

A wide variety of common and unusual ferns and related plants are found in the Elkhorn Mountains. They include the following species:

- green spleenwort (*Asplenium viride* aka *A. trichomanes-ramosum*) This is the second known location of this species in Oregon.
- Cascade rock brake (*Cryptogramma cascadiensis*) is a newly described species that is also known from the Wallowas and Cascades.
- spreading wood fern (*Dryopteris austriaca* aka *D. expansa*) is fairly common in the Cascades, but has only been found in northeastern Oregon at a few sites in the Wallowas, and a few sites in the Elkhorns.
- male fern (*Dryopteris filix-mas*) is known from two populations in the Elkhorns. One of these has over 1000 plants and is the largest, most extensive population known in the Wallowa-Whitman National Forest.
- oak fern (*Gymnocarpium dryopteris*) has been found at a few sites in the northern Blue Mountains, but the location in the Elkhorns is the furthest south it is known in the Blues.
- Bridge's cliff brake (*Pellaea bridgesii*) is a Forest Service sensitive species, found exclusively on argillite (a metamorphic sedimentary rock) in the southern Elkhorn and Wallowa Mountains. It is not found elsewhere in Oregon.

Other ferns and related plants are:

- lady fern (*Athyrium filix-femina*)
- alpine lady fern (*A. distentifolium* aka *A. alpestre* var. *americanum*)
- lace lip fern (*Cheilanthes gracillima*)
- brittle bladder fern (*Cystopteris fragilis*)
- Brewer's cliff brake (*Pellaea breweri*)
- sword fern (*Polystichum munitum*)
- mountain holly fern (*Polystichum lonchitis*)
- stiff clubmoss (*Lycopodium annotinum*)
- Watson's selaginella (*Selaginella watsonii*)
- Bolander's quillwort (*Isoetes bolanderi*)
- crenulate moonwort (*Botrychium crenulatum*)
- mingan moonwort (*Botrychium minganense*)
- mountain moonwort (*Botrychium montanum*)
- leathery grape fern (*Botrychium multifidum*)
- northern moonwort (*Botrychium pinnatum*)
- least moonwort (*Botrychium simplex*)
- rattlesnake fern (*Botrychium virginianum*)

Rare and unusual plants

Several species of rare plants that the Forest Service designates as sensitive call the Elkhorn Mountains home. The Sensitive designation means that Forest Service managers try to ensure the continued viability of these species of environ-

mental concern. In addition to the rare species already mentioned, there are:

- American thorough-wax (*Bupleurum americanum*) and Ross's avens (*Geum rossi* var. *turbinatum*) two species common in the Rocky Mountains, but that reach the western edge of their range in the Elkhorns.
- red-fruited lomatium (*Lomatium erythrocarpum*) is a fairly newly described species only known from two locations in the Elkhorns -- and nowhere else in the world.
- Brandegee's onion (*Allium brandegei*)
- Sierra onion (*Allium campanulatum*)
- low northern sedge (*Carex concinna*)
- northern tway-blade (*Listera borealis*)

VISITING THE ELKHORNS

One of the reasons the Elkhorns are so unexplored botanically is that much of the area is accessible only with a 4x4 vehicle and nerves of steel. Most of the roads into the higher parts of the mountains are actually old mining roads, and are not driveable with a regular car. Half the challenge of visiting some of the more remote areas is just getting there with your undercarriage intact. Since most of the Elkhorns is not a wilderness area, mountain bikes, 4-wheeler ATV's, or dirt bikes provide alternative modes of transportation. For real westerners, horses and mules work too. In spite of the accessibility problem, there are two readily reached areas that offer great hikes and beautiful flowers. The lower elevation areas start blooming in late May, while the best time for higher elevation sites is late July through August.

ANTHONY LAKES AREA

Anthony Lakes offers excellent viewing opportunities for all people interested in wildflowers. Sub-alpine wildflowers can be found here, and many wetland plants grow around the lake, and in the surrounding marshes. A campground is next to the 7,000 foot elevation lake, and an easy trail surrounds it.

Nearby trails offer many hiking and backpacking opportunities. Some recommended areas are the north end of the Elkhorn Crest Trail, Hoffer Lakes, the Lakes Lookout, Crawfish Lake, Van Patten Lake, and Dutch Flat Creek trail.

To get to Anthony Lakes, from I-84 at the North Powder exit, follow the signs to Anthony Lake (west on County Road 101). Approximately 20 miles up the paved road you will reach the Antho-

ny Lakes campground. There is a Forest Service guard station there, where you may obtain maps and information about the area.

MARBLE PASS AND TWIN LAKES

Marble Pass accesses the southern end of the Elkhorn Crest Trail, and Twin Lakes. The Elkhorn Crest Trail is challenging for mountain bikes, and is not recommended for children or those afraid of heights; you ride three miles, park your bike and hike the last mile down to Twin Lakes. There are several moist meadows here, fishing opportunities, and a chance of seeing mountain goats. There is an alternate route into Twin Lakes from the Sumpter side of the mountains. (Check at the Ranger District for directions.) The route to that trailhead is also negotiable to regular cars -- with a careful driver.

The Marble Pass road can be driven by regular cars, but high clearance and/or a patient driver are helpful. The road is gravel and full of potholes and water bars. From Baker City west out Pochontas Road and follow signs to the Marble Creek picnic area. Stay on the main road to the top of the pass (FS road 6510). The Elkhorn Crest trail heads north, and the cutoff down to Twin Lakes is well marked.

For more information on road conditions, or other places to visit, contact the Baker Ranger District, 3165 10th St., Baker City, OR 97814, (503) 523-4476. They have three packages of information on various trails in the Elkhorns. (1) Trails accessed from the Elkhorn scenic byway (hwy 73) and the Elkhorn Crest trail (north end of the range). (2) Trails accessed from the Elkhorn scenic byway (hwy 73). (South end of the range, near Sumpter). (3) Trails accessed from roads west of Haines. (Center of range, out of Baker City). For more particular information on particular species or types of habitats, contact the author at the Wallowa-Whitman Supervisor's Office, P.O. Box 907, Baker City, OR 97850, (503) 523-6391.

Next time you drive down I-84, or visit historic Baker City, make that effort to explore one of Oregon's under-appreciated wonderlands -- the Elkhorn Mountains. Who knows, you may find a new location of a rare plant, or just appreciate the beauty in relative solitude.

Paula Brooks
William Cusick Chapter

OPPORTUNITIES TO HELP THE ENVIRONMENTAL FEDERATION AND NPSO

The Native Plant Society of Oregon receives a good proportion of its budget from the Environmental Federation of Oregon. EFO raises money by participating in the charitable giving drives of businesses; funds received are then dispersed among member organizations. In addition to providing a financial boost to environmental groups, EFO helps build bridges between the business and conservation communities.

As summer approaches, EFO is looking for volunteers to lead field trips for employees at those businesses. From June through August, EFO offers these walks to thank people for their support. Sarah Sameh of EFO believes that trip leaders who could talk about native plants would be especially appreciated. And it would present an opportunity to speak to a new audience about the issue. Most hikes would need to be on weekends for a day or half a day, although an hour and a half at noon at sites near the workplace might also be possible. Some easy, child-friendly hikes would be appreciated.

From Grants Pass to La Grande, NPSO members can help this effort. Employers such as the state of Oregon are part of the program, as are the cities of Corvallis, Ashland, Portland and Eugene. In Eugene, in addition, participating businesses include the Oregon Research Institute, Umpqua Counseling Center, Funk and Associates, Eugene Water and Electric, EPUD, and University of Oregon. Portland has an array of employers, large and small, public and private, including Tri-Met, the public schools, Metro, the Nike Corporation, and Sequent Computer Systems.

EFO added nine companies to their roster last year, and will be doing outreach to new ones in the fall. Here again, NPSO can help. Anyone interested in joining this effort may receive training in giving presentations in August. The advantage is that while employees may give their money to the general fund, they can earmark it for the organization whose representative they hear speak.

Anyone interested in either opportunity should call Maya Muir, the new liaison between NPSO and EFO, at 786-2831, for details.

Maya Muir

ANNOUNCING THE OREGON ATLAS PROJECT

The Atlas project (part of the Oregon Flora Project) was launched at Oregon State University on April 11. The goal of the project is to produce an atlas of Oregon vascular plants in conjunction with a new flora of Oregon. The atlas will include dot maps for each species, a series of map overlays (e.g. eco-regions, actual vegetation, potential vegetation, climate zones), and an introductory chapter on factors that influence plant distributions. The atlas will be available in both printed and computerized forms.

Members of the NPSO can help the project in many ways. The best way you can help is to start making plant lists. The most important things to note for each list are the locality (place name, county, township, range and section), date(s) when the list was compiled, and of course, the names of species, subspecies and varieties. Common names and the authorities (names of people who named the plant) are not needed. List only species you can confidently identify. The quality of the atlas depends a great deal on correct identifications, so if there is any doubt, do not list the species. We are working on a guide that will outline in detail the types of information needed. To obtain a copy of the guide, send a note and we will get you a copy as soon as it is available.

Scott Sundberg
Dept. of Botany and Plant Pathology
Oregon State University
2082 Cordley Hall
Corvallis, Oregon 97331

CALL FOR MANUSCRIPTS

The Oregon State University Press announces a new series, "Culture and Environment in the Pacific West," to introduce general audiences to a wide range of environmental issues. Environmental histories, ecological studies, nature writing, forestry, fish, grazing, recreation, land use and urban planning are possible subjects.

Manuscripts should be brief (about 55,000 words) and written for the lay reader. Address inquiries to: William G. Robbins, Department of History, Oregon State University, Corvallis, OR 97331.

State Board Election Results

Congratulations to our new state board: Bruce Rittenhouse, president; Veva Stansell, vice president; Julie Thiel, secretary; Jean France, treasurer. We also wish to congratulate the new board directors-at-large: Dave Dobak, Rhoda Love and Kareen Sturgeon. We had two write-ins: They were Barbara Mumblo and Bruce Barnes, and we hope they will consider running for office next year.

The NPSO bylaws regarding membership have been approved by a large margin. Of the 82 votes cast, there were two no votes and three abstentions. One suggestion for changes will be revisited at the next state board meeting (i.e. changing "anyone" to "any member" and "shall be terminated" to "should be terminated.")

There was a question on an unidentified ballot about collecting guidelines. Members can contact their chapter presidents in June, as notebooks with all guidelines and policies adopted by the state board will be given out at the annual meeting (thanks to the organizer, Bruce Rittenhouse). The Committee wants to thank all those members who ran for office.

The Nominations Committee

[See also the President's Column]

DUCKWEEDS WANTED

While looking through specimens of Oregon Lemnaceae in the herbarium, I discovered that we had fewer than 5 specimens for 10 of the 13 species of duckweeds (*Lemna Spirodela*, *Wolffia*) that have been found in the state. These are among the smallest flowering plants in the world and are poorly collected. If you see any species of the duckweed family, please send living material to me in a moist paper towel inside a sealed plastic bag. Some species look like water lentil (*Lemna minor*). Since this request was made in the Oregon Flora Newsletter, Dave Wagner looked more closely at a pond near his home and found 3 species of *Wolffia*. For specimens sent in, I will provide an identification, and you will be helping the Oregon Flora Project.

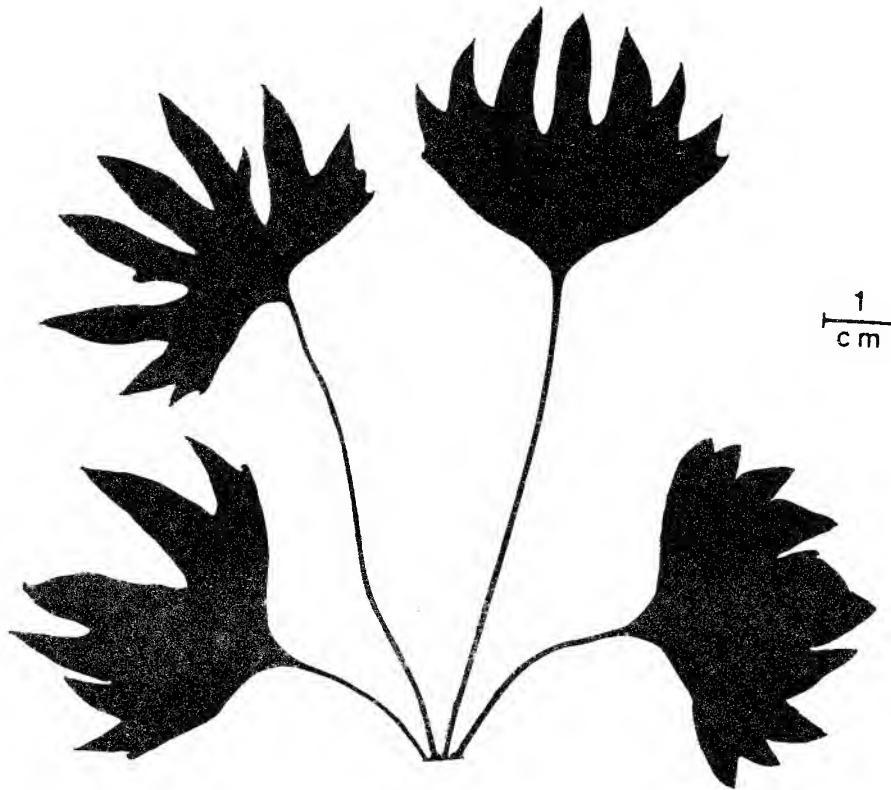
Scott Sundberg

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Can you identify this native wildflower by its foliage?
The first person submitting the correct scientific name will win a prize.

Send your guesses on a postcard to:
Peter Zika, 4230 NW Clubhouse Pl., #1
Corvallis, OR 97330



Rhoda Love, of Eugene, was the first to correctly answer the May puzzle. Her five plants honoring Oregon were: *Selaginella oregana*, *Woodsia oregana*, *Silene oregana*, *Saxifraga oregana* and *Oxalis oregana*.

**CONSERVATION AND MANAGEMENT
OF OREGON'S NATIVE FLORA
TENTATIVE SYMPOSIUM AGENDA**

Wednesday November 15

11:00 - 1:00 Registration
1:00 Opening Remarks
1:05 Keynote Address: Dr. Reed Noss, Ecologist
and Conservation Biologist.

Theme 1: Ecology, Management and Conservation of Oregon's Rare Plant Species.

2:00 - 5:30 Contributed Papers.
6:00 No Host Bar
7:00 Banquet - Ramada Inn
8:00 Slide Show - Speaker TBA

Thursday November 16

Theme 2: Bringing Back the Natives: Restoration of Oregon's Native Plant Communities.

8:30 Keynote Speaker: Dr. Linda McMahan,
Berry Botanic Garden.
9:00 - 12:00 Contributed Papers
12:00 - 1:00 Lunch (on your own).

Theme 3: Plant Systematics, Ecology, and Biogeography of Oregon's Native Plants and Communities.

1:00 Keynote Speaker: Dr. Ken Chambers,
Oregon State University.
1:30 - 5:30 Contributed Papers.
7:00 - 8:00 Update on the Oregon Flora Project,
Scott Sundberg. Place TBA.
7:00 - 9:00 OSU Herbarium Open House.
Refreshments provided.

Friday November 17

Theme 4: The 'Lower' World of Oregon's Floral Diversity - Bryophytes, Lichens and Fungi.

8:30 Keynote Speaker: Dr. David Wagner,
Northwest Botanical Institute.
9:00 - 12:00 Contributed Papers.
12:00 Closing Remarks.

Saturday November 18

Optional Field Trips.

REGISTRATION FORM

**CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA,
NOVEMBER 15 - 17, 1995**

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Registration Fees

Registration (NPSO members \$50, non-members \$60)
Special Student Rate (\$30)

Amount

Banquet Specify: meat _____ or vegetarian _____ (\$13)

Donation \$25 \$50 \$75 \$100 Other

TOTAL

Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.

STATE OFFICERS

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Anna Mockler (acting). PO Box 902, Eugene 97440; 485-0891
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) Richard H. Sommer. 240 Vinyard Lane, Roseburg 97470; 673-3709
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

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RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h: 757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Xavier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ -

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

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() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

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 but not have "membership" status*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

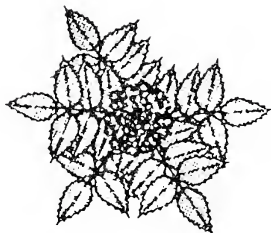
In this issue

President's Column -- Bruce Rittenhouse.	66
Membership Directory Published.	66
Oregon Flora Project News -- Scott Sundberg.	66
 The Elkhorn Mountains -- Paula Brooks.	 67 - 69
 Opportunities to Help the Environmental Federation and NPSO -- Maya Muir.	 69
 Announcing the Oregon Atlas Project -- Scott Sundberg.	 70
Call for Manuscripts.	70
State Board Election Results.	70
Duckweeds Wanted -- Scott Sundberg.	70
 The Plant Puzzle.	 71
 Conservation and Management of Oregon's Native Flora (Agenda and Registration).	 72

NATIVE PLANT SOCIETY OF OREGON
General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 7

JULY 1995

ISSN 0884-599

Action Alert!!! -- See two articles on page 80

State News

September

State Board Meeting: In a place and time to be determined.

Chapter News

Blue Mountain

Meeting: No meetings in the summer.

Corvallis

Meeting: No meetings until October, but watch for field trips.

Emerald

Meeting: No meetings in the summer.

July 8, Sat.

Field Trip: Dale McBride will lead a trip to Triangulation Peak, Detroit District, Willamette NF. Trip includes forest and rock outcrop species. Call Dale, 345-1292, for information. Meet at S. Eugene H.S., at 9 A.M.

July 15, Sat.

Field Trip: Toeing the line: sedges, rushes and the elusive *Helianthella californica* (false sunflower) of southern Lane County. Meet at 9 A.M., S. Eugene H.S. Call Bruce Newhouse, 343-2364, for more information.

High Desert

Meeting: No meetings until September.

July 8, Sat.

Field Trip: Metolius Basin. Member of the California Native Plant Society will be in central Oregon and Cindi O'Neil will take them to some of our favorite spots in the Black Butte/Sisters area. Perhaps a hike to the top of Black Butte will be part of

the trip. Call Cindi O'Neil, 389-3085 evenings, for information.

July 22 - 23
Sat. - Sun.

Field Trip: Augur Creek Ancient Forest. This is the last, best stand of old growth ponderosa pine left in central Oregon. It has been the source of a continuing struggle for protection. The Forest Service has agreed to set aside part of this magnificent area as a Research Natural Area. We will have an overnight campout to visit this special spot. Call trip leader Bill Hopkins, 389-3330 evenings, for details.

Aug. 5, Sat.

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the high Cascades west of Bend. 6 mi. R.T., moderate to strenuous hike, with 1,700 ft. elev. gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hikers are limited to 12. **Pre-registration is required!** Call trip leader Stu Garrett, 389-6981 evenings, to sign up.

Mid-Columbia

July 5, Wed.

Meeting: 7:30 P.M. At Stuart and Mildred Chapin's, 464 SW Eyrie Rd., White Salmon, Washington. Lois Kemp presents the plants of Hawaii. Call (509) 493-2823 for information.

July 15 - 16
Sat. & Sun.

Wildflower Show: Our summer wildflower show at Skamania Lodge, Stevenson, Washington. 10 A.M. to 5 P.M. Spectacular display of native Gorge plants that are important to native Americans and even to most of us. These plants are known for their medicinal and food value. Co-sponsored with National Scenic Area USDA Forest Service.

Aug. 2, Wed.

Potluck Barbecue: Our annual potluck barbecue at the Igo's place on Dry Creek Rd.

Sept. 6, Wed.

Meeting: 7:30 P.M. Mosier School. Peter Zika presents the flowers of the Baja.

North Coast

Meeting: No meeting in July.

July 8, Sat.

Field Trip: Gearhart Bog. This the largest contiguous wetland of its type left on the Oregon coast. Part of the bog is newly protected as a Nature Conservancy preserve. Trip leader is Neal Maine. Limited to 12 persons, and **pre-registration is required.** Call Nancy Eid, 861-1837 evenings, for details and to sign up.

Portland

July 1, Sat.

Field Trip: Grassy Knoll. Hike 4.6 mi. R.T. through varied habitat from deep forest to open meadow, with 880 ft. elev. gain. Spectacular views of Columbia River Gorge and surrounding mountains, from the top of the knoll. Driving 140 mi. R.T. Meet at 8 A.M., ODOT, 60th and NE Glisan. Contact Carroll Dubar, 234-4135.

July 9, Sun.

Field Trip: North Santiam Trail. Hike through old growth forest along the Little North Santiam River. Explore forest understory and enjoy views of the Little Santiam, the triple falls of Henline Creek. Hike 4.5 mi. one way (with car shuttle). 900 ft. elev. gain. Meet at 8 A.M., Tualatin Fred Meyer (just off I-5 at Tualatin exit). Contact Mary Vogel, 645-1992.

July 11, Tues.

Meeting: 7 P.M., First Methodist Church, 1838 SW Jefferson St., Portland. Bonnie

Brunkow, curator of Leach Gardens, presents a talk with slides, "Late Summer Wildflowers of Turkey and Mt. Olympus." Room will open at 6:30 P.M. for socializing.

- July 16, Sun. **Field Trip:** Lost Creek Ridge. Follow mile-long, abandoned stretch of the Pacific Crest Trail, with Russ Jolley. See some uncommon members of the Ericaceae (Heath) family. On the way home, stop at Grassy Knoll trailhead to look for *Iliamna rivularis* in bloom. Also stop by the Wind River to find *Epipactis gigantea*. Hike about 1 mi. R.T. Be prepared to walk in shallow water. Driving 130 mi. R.T., 8 mi. on gravel logging road. Meet at 8:30 A.M., ODOT, 60th and NE Glisan, or 9:30 A.M., Oregon side restrooms, Bridge of the Gods, Cascade Locks. Contact Dee White, 227-2581.
- July 23, Sun. **Field Trip:** Bald Mountain. Summer wildflowers. Moderately strenuous hike, 5.5 mi. R.T., about 800 ft. elev. gain. Trip limited to 12 persons. Call Dee White, 227-2581, for reservations, meeting time and place.
- July 29, Sat. **Field Trip:** Leach Botanic Garden. Botany for beginners. Leisurely walk through historic garden, with wide variety of native plants in a natural setting along Johnson Creek. On the way to the garden we will make a brief stop at Beggar's Tick. Take lunch, dress for the weather, take favorite field guides. Experienced botanists will assist beginners. Meet at 9 A.M., ODOT, 60th and NE Glisan, or 10 A.M., Leach Botanic Garden, 6704 SE 122nd Ave. (S. of Foster Rd., on Tri-Met route 17). Contact Charlene Holzwarth, 284-3444.

Siskiyou

Meeting: No meeting in July or August.

- July 1, Sat. **Field Trip:** Anita Seda will lead a trip to Bigelow Lakes. Meet at the Illinois Valley Visitor Center, in Cave Junction, at 10 A.M.
- July 4, Tues. **Wildflower Show:** The Siskiyou Chapter's show at Lithia Park, in the gazebo next to the band shell. We could use help in collecting plants, setting up displays and talking to folks during the day. Call Barbara Mumblo, 899-1812 days, if you can help.
- July 8, Sat. **Field Trip:** Rogue River Trail. Carol Harmount, botanist for the Prospect Ranger District, will lead. Meet at the Crater Lake Fred Meyer's, 9 A.M., or the Prospect Ranger Station, at 10 A.M.
- July 22, Sat. **Field Trip:** Elk Meadow Basin. Wayne Rolle will lead to Elk Meadow Basin, near Cook and Green Pass. Meet at Star Ranger Station, 9 A.M. Some strenuous walking.
- Aug. 26, Sat. **Field Trip:** Steve Fork Headwaters. Ginny Post will lead to this headwaters in the Applegate watershed. Easy, short hike, but lot of driving to the trailhead. Meet at Medford K-Mart (near McDonald's), 8:30 A.M., or Star Ranger Station, 9:15 A.M.

South Coast

- July 15, Sat. **Field Trip:** Roman Nose Mountain and Kentucky Falls Trail. Meet at Reedsport Safeway, on Hwy. 101, 9 A.M. Call Bruce Rittenhouse, 888-9328, for information.

Umpqua Valley

Meeting: No meeting in July.

- July 29, Sat. **Field Trip:** Lookout Mountain, up the Little River drainage out of Glide, to explore

the flora. Meet at BLM parking lot, 777 Garden Valley Rd., Roseburg, at 7:45 A.M., for 8 A.M. departure. Call Allan Romeril, 673-4194, for information.

Willamette Valley

Meeting: No meetings until September.

July 1, Sat. **Field Trip:** Marion/Ann Lakes, at middle elevation in Cascade Mountains. Hike moderate, about 5 mi. R.T. Meet at 8 A.M., S. Salem K-Mart parking lot, 25th and Mission Sts. SE. Call trip leader Wilbur Bluhm, 393-2934, for more information.

Note: The Emerald Chapter encourages WV members to join them on their trip to Triangulation Peak on July 8. Call Jenny Dimling, 465-6321, to set a meeting place closer to Salem.

Wm. Cusick

Meeting: No meeting in July.

July 8, Sat. **Field Trip:** Ladd Marsh wetlands tour. We plan to observe some of the last remnants of Grande Ronde Valley floor plant communities. We hope to compile a species list as we go, that can be used by ODFW in management of this area. Meet at the Forest and Range Lab parking lot, 8 A.M. Call Bob Ottersberg, 963-6043, for information.

July 28 - 30
Fri. - Sun.

Field Trip: Alpine wildflowers in the Wallowas. Paula Brooks will lead this trip into Frances Lake to look at the unique alpine and sub-alpine vegetation that occurs with limestone and marble. Trip will start in Lostine on Friday morning. Prepare for back-pack camping in the wilderness. Call Paula, 963-2195, to reserve a place, since wilderness groups are limited to twelve people.

Rebarrow Brush Work: The dead trees on our ten acre forest stewardship plot are a fire hazard in some place. We will be borrowing the Obie wood chipper some time this summer to reduce the fuel levels. Anyone interested in taking part in this project should contact Bob Ottersberg, 963-6043. When we get enough crew together, we will reserve the chipper.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Has Anyone Seen This Plant?

After reading about the penstemons in the recent issue of *Kalmiopsis*, I am inspired to write about an unusual variation of *Penstemon fruticosus* that I have been interested in for several years. At first I tended to ascribe the variety *serratus* to this species, but it is found in the wrong place for that. It is actually on the Warm Springs Indian Reservation in desert habitat, and thriving very well.

This penstemon was in full bloom on the last weekend in April (April 29-30) when we drove to the Reservation and was covering a welded tuff canyon wall with over 200 plants. It was a spectacular sight. Many of the typical *P. fruticosus* can be found in road cuts -- disturbed areas in conifer forests. These on the rock wall have all chosen to be in steep, undisturbed rock crevices, with very few even thriving on a grassy slope nearby, at only 1600 feet. After ten years of photographing and studying flowers around the Reservation (with permission) I have found no other similar population or anything that compares. This population was known to Dr. David French when he collected on the Reservation some 40 years ago, but his findings have never been published.

Not only is the habitat unusual for *P. fruticosus*, but the leaves are very small and deeply serrated - in fact the plant seems prickly to touch. The plants are very vigorous and large, approaching one meter high and two meters across, and they are distributed over an area from roadside to about 60 meters above and 400 meters in length.

Since this is an area that is visible from the highway near KaNeeTa, I would be interested in what others think of this plant. To find it, drive north about one mile on S100, from the Warm Springs bridge near KaNeeTa, to the high narrow tuff canyon known as Hellgate (R12ETO8S Sec. 18). If you park carefully on the roadside you can observe the penstemon on the eastern tuff cliff without permission of the Tribal Council. But any further investigation may require their permission. I am particularly interested in knowing if anyone has found this variation elsewhere.

David French found this penstemon in 1958 and it was determined to be *P. fruticosus* (Pursh) Green (without any variety) by Arthur Cronquist at NYBG in March 1959. This indicates it has been thriving there a long time. This variation of *P. fruticosus* seems stable and remote enough for special research, so I have collected samples for spe-

ciation studies. These have been sent to Andrea Wolfe at Vanderbilt who may require a year to complete this analysis. This may be just a habitat accommodation, but that doesn't satisfy my curiosity.

Marge Ettinger
High Desert Chapter

Corrections to Penstemon Key

In "Descriptive Key To Oregon Penstemons," in the latest issue of *Kalmiopsis*, two typographic errors need correction. They are:

On page 16, entry 16: "Anther sacs hairy..."
It should read: (**in 5 species**)

On page 17, entry 26: "Shrub...bare-looking."
It should read: (**50 - 150 cm. tall**)

Robin Lodewick
Emerald Chapter

Grasses, Sedges, Rushes A Plant Identification Workshop

Hortus Northwest presents its second annual plant identification workshop, a two day refresher course, featuring laboratory and field instruction, at Willamette University in Salem, on July 13th and 14th, 1995. Ed Alverson, ecologist for The Nature Conservancy and NPSO member, will be the field team leader, and M. Lovern Wilson, a plant ecologist, will lead the laboratory team.

Workshop Agenda

July 13	Grasses
8-8:30	Orientation
8:30-12:30	Morning Session (Group 1 lab/ 2 field)
12:30 - 1:00	Lunch (provided)
1 - 5	Afternoon Session (Group 1 field/2 lab)
5:00 - 7:00	Dinner Break (not provided)
7:00 - 9:00	Evening Session

July 14	Sedges and Rushes
8:00 - 8:30	Orientation
8:30 - 12:30	Morning Session (Gr. 1 field/Gr. 2 lab)
12:30 - 1:00	Lunch (provided)
1 - 5	Afternoon Session (Group 1 lab/2 field)

Kathrynn Carrico, 503-266-7968, for information.

Action Alert!!!

Letters need to be sent to Jack Ward Thomas regarding proposed changes to the National Forest Management Act. These changes affect rare plants.

Attention NPSO members (and anyone else). You have until **July 12 to respond** to a serious situation. In mid-April, proposed new forest management rules were published in the Federal Register. Unfortunately, most of us did not hear about these until the end of May. The new rules would gravely alter the way our National Forest biologists manage for rare species and habitats. Among other things, protection would be removed for plants and animals at risk locally, and language would be changed making it difficult to protect habitats from fragmentation.

What can we do? Go, at once, to look at the Federal Register for April 13, "Part II, Department of Agriculture, Forest Service." It is long and obscure, but please read as much as you can, paying special attention to page 18921 and the following pages. Note that "Option I" is the most dangerous option in that it drastically cuts back on protection for locally rare species.

Please express your views as to what these changes would mean for the health and diversity of our forest ecosystems, by writing , **by July 12**, to the Director of Ecosystem Management, (1920; 3 CEN), Forest Service, USDA, PO Box 96090, Washington, D.C. 20090-6090, or to Jack Ward Thomas, USDA Forest Service, PO Box 96090, Washington, DC 20090-6090.

Rhoda Love
Emerald Chapter

Proposed Rules Soften NFMA

On April 13, 1995 the Forest Service published new rules in the Federal Register that could fundamentally change the way national forest land is managed. The proposed rules deal with the forest planning process, which is one of the primary forums available for citizens to influence local forest management. The new rules will alter the basic standards that apply to the protection of forests, land, water and wildlife.

"The original vision of NFMA (the National For-

est Management Act) raised many varied expectations, some of which remain unfulfilled," according to the preamble published with the rules in the Federal Register. The new rules are designed to give more flexibility to forest managers, but flexibility is given at the expense of protective standards that the public can rely on to hold managers accountable.

One of the most significant changes to the proposed NFMA rules involves the "viable populations requirement." This requirement led the Forest Service to protect millions of acres in the Pacific Northwest as habitat for the northern spotted owl. The new rule would remove the requirement that the Forest Service maintain viable populations of all native vertebrate species. Instead, the agency would rely on computer models to indicate how much habitat needs to be protected to provide for sensitive species.

Another important change is deleting the requirement that the Forest Service determine whether lands are suitable for livestock grazing. This rule has never been well-implemented, but many saw the new round of forest planning as an opportunity to limit cattle from riparian areas, hot deserts, erosive soils, and other sensitive areas where livestock clearly never belonged. Unless the requirement to perform grazing suitability analysis is reinstated in the final rule, grazing will likely remain an intractable problem for the foreseeable future.

The Forest Service is now receiving public comment on these proposed rules. You can get a copy of the proposal by calling **(202) 205-1034**. Send your comments **before July 12, 1995** to Director, Ecosystem Management (1920; 3 CEN), USDA Forest Service, PO Box 96090, Washington, DC 20090-6090.

(Reprinted with permission from: Inner Voice 7, 3 (May-June 1995), AFSEEE monthly newsletter.)

Try for the Federal Register in the libraries of the following institutions.
SOSC - Ashland; COCC - Bend; OSU - Corvallis; U of O - Eugene; Pacific U. - Forest Grove; Oregon Inst. of Tech. - Klamath Falls; OSC - La Grande; Linfield - McMinnville; WOSC - Monmouth; BMCC - Pendleton; Lewis & Clark and Multnomah County Lib. - Portland; Oregon State Lib. and O. Supreme Court Lib. - Salem.

Or try other libraries in your area.

Keep Writing!!!

It is difficult to keep up with the threats to existing environmental legislation and new legislative proposals that could dramatically change natural resource policy (state and federal). However, it is very important that we continue to contact our senators, representatives, state congresspersons, president and governor. Please refer to the insert in May's Bulletin that lists contact information for our elected officials and write, call, FAX and e-mail them as frequently as you can. Call the Audubon Action Line (800-659-2622 any time of day) for a recorded update on fast-moving environmental legislation at the federal level.

As of June 5, President Clinton promised to veto the following three pieces of anti-environmental legislation: 1) the rescissions bill that contains the "logging without laws" rider; 2) The House-passed "takings" bill; 3) the "dirty water bill" that would weaken existing laws under the "Clean Water Act" that protect (well, sort of protect) wetlands. Please notify the president and let him know you support his promises and will hold him to them. A major factor that influenced his promise to veto was the number of letters, phone calls, etc. that he received opposing the legislation.

In July, it is likely that the federal Endangered Species Act reauthorization will be considered in the House natural resources committee, and a "takings" bill (1S-605) will be discussed on the Senate floor. Let your representatives know you support the ESA. Notify Senators Hatfield and Packwood that you oppose "takings" legislation. Please contact me if you would like copies of sample letters.

Kate Dwire
Westside Conservation Chair
754-4493 (work) -- 757-7115 (home)

If you no longer have, or didn't receive, the May insert ("Who to call, write or fax") please call the Bulletin editor and a new one will be supplied.

Rare Plant and Animal Booklet

The 1995 edition of "Rare, Threatened and Endangered Plants and Animals of Oregon" will be republished this coming August. Any additions, corrections or deletions need to be submitted by July 15, 1995 to the Oregon Natural Heritage Program, 1205 NW 25th Avenue, Portland, OR 97210, telephone (503) 229-5078, fax (503) 228-3153, ATT: Sue Vrilakas. Changes resulting from the November, 1994, Bend Rare Plant Conference and subsequent comments will be incorporated in this edition. If you have not seen the notes from this conference and would like to do so, please send your request and a self-addressed, stamped envelope to the above address.

We are also seeking illustrations for the cover and text. Although we cannot pay for the drawings which are used, we will give credit to the artist. If you are interested, please submit a good, clean copy to the Oregon Natural Heritage Program as soon as possible.

BOTANY SCHOLARSHIP AWARDED

Jean Davis was a charter member of the Willamette Chapter of the NPSO. After her death, a fund of \$10,000 was set up in her memory. Its intent was to use the interest for a \$1,000 scholarship for a botany student in Oregon each year. The principal has increased to \$12,000, but at current interest rates it is not quite enough for the purpose. A few more donations would certainly be welcome.

This year we had five excellent students apply for the scholarship. Dylan Fisher of Eugene was chosen. He will attend O.S.U. this fall.

Harriet Schoppert
Committee Chair

Wi' sae mony wild roses
Dancin' and daffin'
It looks as tho' a'
The countryside's laffin'.

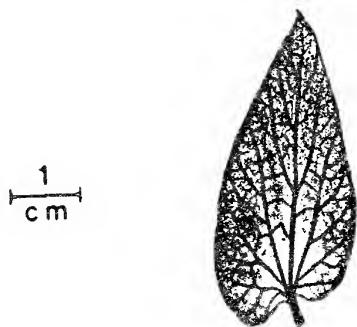
The Plant Puzzle

Sponsored by the Siskiyou Chapter

Can you identify this native woody plant by its foliage? The first person to submit the correct scientific name will win a prize.

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330



Bruce Newhouse was the first to solve the May puzzle: *Viola lobata*, pine violet.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by 10th of month.**

CREDITS: Identify author and affiliation. If it is not original, cite the source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of modem not possible at this time.

ORIGINALS: Items only returned if requested.

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers.. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel, parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455. \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1995. Available from Jan Dobak, 2584 NW Xavier St., Portland, OR 97210-2412. \$2 each.

FOR USERS OF THE JEPSON MANUAL

The material on the insert in this month's issue of the Bulletin was compiled by Corvallis Chapter member, Peter Zika, as an aid in using The Jepson Manual.

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CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) ... Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, OR 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) ... Richard H. Sommer. 240 Vinyard Lane, Roseburg 97470; 673-3709
 WILLAMETTE VALLEY (Salem) ... Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE ... Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE ... Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8

() Regular. \$12

() Family. \$18

() Sustaining. \$30

() Patron. \$100

() Life Membership. \$500

() New "Quarter" Membership. \$3

Only for new members

enrolled during September through December

() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

Only for those wishing to subscribe

but not have "membership" status

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. . \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

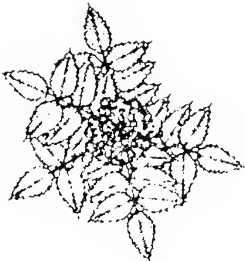
In this issue

Has Anyone Seen This Plant? -- Marge Ettinger.	79
Corrections to Penstemon Key -- Robin Lodewick.	79
Grasses, Sedges, Rushes: A Plant Identification Workshop.	79
Action Alert -- Rhoda Love.	80
Proposed Rules Soften NFMA.	80
Keep Writing -- Kate Dwire.	81
Rare Plant and Animal Booklet.	81
Botany Scholarship Awarded -- Harriet Schoppert.	81
The Plant Puzzle.	82
NPSO Items For Sale.	82

NATIVE PLANT SOCIETY OF OREGON
General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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173 California plant families, Jepson Manual

Acanthaceae 125	Elatinaceae 542	Papaveraceae 810
Aceraceae 125	Empetraceae 544	Philadelphaceae 816
Aizoaceae 126	Ephedraceae 114	Phytolaccaceae 818
Alismataceae 1101	Equisetaceae 94	Pinaceae 115
Amaranthaceae 130	Ericaceae 544	Pittosporaceae 819
Anacardiaceae 134	Euphorbiaceae 567	Plantaginaceae 820
Apiaceae 136	Fabaceae 577	Platanaceae 821
Apocynaceae 166	Fagaceae 657	Plumbaginaceae 822
Aponogetonaceae 1102	Fouquieriaceae 1320	Poaceae 1218
Aquifoliaceae 169	Frankeniaceae 664	Polemoniaceae 824
Araceae 1102	Garryaceae 664	Polygalaceae 852
Araliaceae 169	Gentianaceae 666	Polygonaceae 854
Arecaceae 1105	Geraniaceae 672	Polypodiaceae 100
Aristolochiaceae 170	Grossulariaceae 676	Pontederiaceae 1303
Asclepiaceae 170	Gunneraceae 680	Portulacaceae 895
Aspleniaceae 89	Haloragaceae 680	Potamogetonaceae 1304
Asteraceae 174	Hippocastanaceae 682	Primulaceae 905
Azollaceae 89	Hippuridaceae 682	Pteridaceae 101
Balsaminaceae 1321	Hydrocharitaceae 1150	Punicaceae 909
Basellaceae 360	Hydrophyllaceae 683	Rafflesiaceae 910
Bataceae 360	Hypericaceae 708	Ranunculaceae 910
Berberidaceae 362	Iridaceae 1151	Resedaceae 930
Betulaceae 364	Isoetaceae 95	Rhamnaceae 931
Bignoniaceae 366	Juglandaceae 709	Rosaceae 942
Blechnaceae 90	Juncaceae 1157	Rubiaceae 976
Boraginaceae 366	Juncaginaceae 1166	Rutaceae 986
Brassicaceae 392	Koerberliniaceae 710	Salicaceae 988
Buddlejaceae 448	Krameriaceae 710	Santalaceae 1000
Burseraceae 448	Lamiaceae 710	Sarraceniaceae 1000
Cabombaceae 450	Lauraceae 734	Saururaceae 1000
Cactaceae 450	Lemnaceae 1168	Saxifragaceae 1002
Callitrichaceae 456	Lennoaceae 734	Scheuchzeriaceae 1308
Calycanthaceae 458	Lentibulariaceae 735	Scrophulariaceae 1011
Campanulaceae 459	Liliaceae 1170	Selaginaceae 109
Cannabaceae 469	Limnathaceae 736	Simaroubaceae 1067
Capparaceae 469	Linaceae 738	Simmondsiaceae 1068
Caprifoliaceae 471	Loasaceae 740	Solanaceae 1068
Caryophyllaceae 475	Lycopodiaceae 96	Staphyleaceae 1077
Celastraceae 498	Lythraceae 745	Sterculiaceae 1077
Ceratophyllaceae 500	Malvaceae 746	Styracaceae 1078
Chenopodiaceae 500	Marsiliaceae 96	Tamaricaceae 1080
Cistaceae 515	Martyniaceae 762	Taxaceae 121
Commelinaceae 1105	Meliaceae 763	Taxodiaceae 122
Convolvulaceae 516	Menyanthaceae 763	Thelypteridaceae 110
Cornaceae 522	Molluginaceae 764	Thymelaeaceae 1080
Crassulaceae 524	Moraceae 764	Tropaeolaceae 1081
Crossosomataceae 534	Myoporaceae 765	Typhaceae 1308
Cucurbitaceae 535	Myricaceae 765	Ulmaceae 1081
Cupressaceae 111	Myrtaceae 766	Urticaceae 1082
Cuscutaceae 538	Nyctaginaceae 768	Valerianaceae 1083
Cymodoceaceae 1106	Nymphaeaceae 774	Verbenaceae 1085
Cyperaceae 1106	Oleaceae 775	Violaceae 1089
Datisceae 540	Onagraceae 776	Viscaceae 1092
Dennstaedtiaceae 90	Ophioglossaceae 98	Vitaceae 1097
Dipsacaceae 540	Orchidaceae 1211	Zannichelliaceae 1310
Droseraceae 541	Orobanchaceae 804	Zosteraceae 1310
Dryopteridaceae 91	Oxalidaceae 808	Zygophyllaceae 1098
Elaeagnaceae 541	Paeoniaceae 809	

Jepson Manual geographic subdivision abbreviations

c SNF central Sierra Nevada foothills
c SNH central high Sierra Nevada
CA-FP California floristic province
CaR Cascade ranges
CaRF Cascade range foothills
CaRH high Cascade range
CCo central coast
ChI Channel Islands
CW central western California
D desert province
DMoj Mojave Desert
DMtns desert mountains
DSon Sonoran Desert = Colorado Desert)
GB Great Basin province
GV great central valley
KR Klamath ranges
MP Modoc plateau
n ChI northern Channel Islands
n SNF northern Sierra Nevada foothills
n SNH northern high Sierra Nevada
NCo north coast
NCoR north coast ranges
NCoRH high north coast ranges
NCoRI inner north coast ranges
NCoRO outer north coast ranges
NW northwestern California
PR peninsular ranges
s ChI southern Channel Islands
s SNF southern Sierra Nevada foothills
s SNH southern high Sierra Nevada
SCo south coast
SCoR south coast ranges
SCoRI inner south coast ranges
SCoRO outer south coast ranges
ScV Sacramento valley
SN Sierra Nevada
SnBr San Bernardino Mountains
SNE east of Sierra Nevada
SNF Sierra Nevada foothills
SnFrB San Francisco Bay area
SnGb San Gabriel Mountains
SNH high Sierra Nevada
SnJt San Jacinto Mountains
SnJV San Joaquin valley
SW southwestern California
TeH Tehachapi Mountains
TR transverse ranges
W&I White and Inyo Mountains
Wrn Warner Mountains
WTR western transverse ranges



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 8

AUGUST 1995

ISSN 0884-599

State News

Sept. 9, Sat. **State Board Meeting:** 10 A.M. - 3 P.M. Mosier. Hosted by the Mid-Columbia Chapter, at the Mosier School.

Chapter News

Blue Mountain

Meeting: No meeting in August.

Corvallis

Meeting: No meetings until October.

Emerald

Meeting: No meetings in the summer.

Aug. 5, Sat. **Field Trip:** Dome Rock in the Rigdon Ranger District to see *Elmera racemosa*. Meet at S. Eugene H.S., 8 A.M. Trip leader is Evelyn Everett.

High Desert

Meeting: No meetings in August, November or December.

Aug. 5, Sat. **Field Trip:** Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the high Cascades west of Bend. 6 mi. R.T., moderate to strenuous hike, with 1,700 ft. elev. gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hikers are limited to 12. **Pre-registration is required!** Call trip leader Stu Garrett, 389-6981 evenings, to sign up.

Sept. 26, Tues. **Meeting:** Our first fall meeting will be a potluck at Stu Garrett's, 21663 Paloma Dr.,

Bend. We will plan for our winter meetings. Please plan to arrive at 6:30 P.M. Call Stu, 389-6981 evenings, if you need directions.

- Oct. 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. This will be our annual members' slide show. Please bring 12 slides you wish to share with us.

Mid-Columbia

- Aug. 2, Wed. **Barbecue:** Our annual potluck barbecue at the Igo's place on Dry Creek Road.
- Sept. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Peter Zika will present the flowers of the Baja Peninsula.

North Coast

Meeting: No meeting in August.

- Aug. 12, Sat. **Field Trip:** To Saddle Mountain. Meet at trailhead parking lot at 9 A.M. For more information, call Christine Stanley at 436-0161.

Portland

Meeting: No meeting in August.

- Aug. 5 - 6
Sat. - Sun.

Field Trip: Mount Rainier. Weekend outing with overnight camp at White River campground. We may detour en route to explore meadows above Chinook Pass, or optionally, continue directly to White River CG and spend Saturday afternoon walking the Glacier Basin Trail. On Sunday, Chris Chapel, from the Olympic Chapter of the Washington Native Plant Society, will lead a walk through the alpine meadows of Berkeley Park. Prepare for an overnight car camp in a developed campground and day hikes in alpine terrain. Meet at 8 A.M., Sat., at ODOT lot, 60th & NE Glisan. Call Mike McKeag, 642-3965, for more information.

- Aug. 12, Sat. **Field Trip:** Nasty Rock. Visit subalpine meadow near the headwaters of the Molalla River with Julie Thiel, BLM botanist. Easy, 2-3 mi. hike through forest, some of it old growth, leading to rocky meadow. A short scramble leads to view from the top of Nasty Rock. We should find *Aster gormanii* and lots of ripe huckleberries. High clearance vehicles required for last 5 mi. of approach road. We may arrange for use of BLM van. Meet, 8 A.M., ODOT, 60th & NE Glisan. We meet Julie Thiel, 9 A.M., Oregon Dept. of Forestry, Rte. 211, just north of Molalla. Contact Mike McKeag, 642-3965.

- Aug. 13, Sun. **Field Trip:** Bonny Meadows. Easy (2 mi. R.T.) walk through subalpine meadow south of Mt. Hood, with Forest Service botanist, Mart Stein. Meet, 8 A.M., ODOT lot, 60th & NE Glisan. Second meeting place, 9 A.M., Zig Zag Ranger Station. For more information, call Marty Stein, 760-2531.

- Aug. 20, Sun. **Field Trip:** Mt. Hood Meadows. Examine alpine meadow restoration work on the ski slopes at Mt. Hood Meadows, with Forest Service botanist, Heather Laub. Hike along portion of Mt. Hood Loop Trail to compare natural meadow communities with existing ski slope vegetation and meadow restoration efforts. Take lunch, ten essentials, prepare for leisurely hike in alpine terrain. Meet, 8 A.M., ODOT lot, 60th & NE Glisan, to car pool to trailhead. 2nd meeting place, 9:30 A.M., Mt. Hood Meadows Main Lodge. Contact Mike McKeag, 642-3965.

Aug. 26, Sat. **Field Trip:** Minthorn Bottoms. Wetlands field trip for beginning botanists. Dress for the weather, take water, lunch, binoculars, boots, etc. Meet, 9 A.M., ODOT lot, 60th & NE Glisan. Alternate meeting place, 9:30 A.M., K-Mart, 82nd & Milwaukie Expressway. Contact Charlene Holzwarth, 284-3444, for information.

Siskiyou

Meeting: No meeting in August.

Aug. 26, Sat. **Field Trip:** Steve Fork Headwaters. Ginny Post will lead to this headwaters in the Applegate watershed. Easy, short hike, but a lot of driving to the trailhead. Meet at Medford K-Mart (near McDonald's) 8:30 A.M., or Star Ranger Station, 9:15 A.M.

South Coast

Aug. 5 -6
Sat. - Sun. **Field Trip:** To Red Mountain and vicinity in the Kalmiopsis Wilderness to see such serpentine endemics as *Epilobium rigidum*. Other hikes available for those wanting to camp over night. Limited to 15 people. Call Bruce Rittenhouse, 888-9328, for information. Meet at Brookings Fred Meyer, 9 A.M., on Saturday, August 5.

Umpqua Valley

Meeting: No meeting in August.

Aug. 19, Sat. **Field Trip:** Botanize Wizard Island in Crater Lake National Park. Leave at 6 A.M. from BLM parking lot, 777 Garden Valley Blvd., Roseburg, or meet at 9 A.M., Cleetwood Cove, Crater Lake rim, in order to hike down to dock to catch 10 A.M. boat. For details, call Richard Sommer at 673-3709.

Willamette Valley

Meeting: No meetings until September.

Aug. 12, Sat. **Field Trip:** Opal Creek, a beautiful stream at lower elevation in Cascade Mountains, is in an area proposed as a Wilderness Area in past years. An easy to moderate 2 to 3 mi. hike each way. Meet at S. Salem K-Mart parking lot, 25th and Mission St. SE, at 8 A.M. Call trip leader George Schoppert, 859-2613, for information.

Wm. Cusick

Meeting: No meetings in the summer.

Aug. 5, Sat. **Work Day:** At Rebarrow. We will work on fuel reduction projects such as thinning and chipping, and on fencing to keep wildlife from eating all the shrubs. Meet at the Safeway parking lot in La Grande, 8:30 A.M., to car-pool. Take gloves, tools, lunch and water. Lot of hands are needed to keep our acres in good shape, so mark your calendars. For more information call Bob Ottersberg, 963-6043.

New Project: Dave Larson, the manager at Ladd Marsh, has requested our assistance in creating a species list for the marsh. Would you like to get to know the marsh and learn to identify plants? Call Dave at 963-4954, or Barbara Russell at 963-7495.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

REGISTRATION FORM

CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA, NOVEMBER 15 - 17, 1995

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Registration Fees

Registration (NPSO members \$50, non-members \$60)
Special Student Rate (\$30)

Amount

Banquet Specify: meat _____ or vegetarian _____ (\$13)

Donation \$25 \$50 \$75 \$100 Other

TOTAL

Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.

The NPSO Forest Policy

Below is the NPSO Forest Policy. With some final editing, the forest policy was approved at the June, 1995 board meeting. Thanks to all NPSO members who submitted comments and participated in discussions of the draft versions of the policy. I encourage NPSO members to use the policy in correspondence with resource managers and elected officials.

Kate Dwire

Conservation Chair, Westside

The Native Plant Society of Oregon is dedicated to the conservation of Oregon's native vegetation, including our remaining forest ecosystems. In the last few decades, the forests of the Pacific Northwest have undergone extreme ecological change as a result of logging, road-building and silvicultural practices. We emphasize science-based management of forest resources and cooperative approaches among agencies, local communities and interest groups. Our policy is directed at all publicly and privately owned forested lands.

Protection

1. NPSO advocates protection of all remaining Westside old growth forests in reserves where no thinning or salvage is allowed. Approximately 90% of our Westside old growth forests have been cut. The remaining old growth should be protected by establishing legislatively mandated Old Growth Reserves or Late-Successional Reserves. We recommend that standards and guidelines be designed and adopted to maintain and further the development of late-successional forest ecosystems and to protect them from loss due to logging, human impacts such as road-building, recreational over-use, and harvest of non-timber forest products. Since these systems are invaluable reference areas for increasing our understanding of the ecology of old growth forests, we feel that natural processes such as blow-down, disease, fire and other natural disturbance should be allowed to run their natural course.

2. NPSO advocates protection of all Eastside old growth forests. We disagree with accelerated logging in the already fragmented forests of central and eastern Oregon. We advocate the same criteria for set asides as noted above for the Westside.

3. NPSO advocates adding to the reserve system forests of various ages, stages, and forest types and plant communities which will be allowed to undergo natural succession. All seral stages should be represented in a dynamic reserve system. In order to allow the forest to recover from a half century of serious over-use, a substantial percentage of our public forest lands should now be placed on a long-term, rotational schedule. NPSO recognizes that change is inevitable in all ecological systems. Land and resource management plans must cover sufficient land area and provide management guidelines to accommodate the dynamic nature of forested ecosystems.

4. NPSO strongly advocates protection of vascular and nonvascular botanical diversity, including but not limited to threatened, endangered and sensitive plant species, native plant communities and special habitats.

5. NPSO advocates the establishment of riparian preserves. Riparian area boundaries should include areas of adjacent vegetation that provide shade, nutrients, and large organic debris inputs to associated streams and wetlands. The zone of influence or riparian area typically has a profound effect on the condition of the stream and its bordering vegetation. Failing to protect the riparian zone threatens multiple values such as storage of flood waters, nutrient cycling, water quality, and terrestrial and aquatic habitat.

6. In order to prepare for possible global climate change, a corridor system of suitable habitat should be established within the forest to allow for migration of both plants and animals. The forests should be managed in such a way that native species may migrate in response to long term meteorological change. The appearance of new plant species within a given tract of forest land may signal a response to climate change, and such shifts in plant distribution should be studied and monitored.

Special Areas

7. NPSO advocates careful, case by case management of forest resources occurring in specially designated lands including Research Natural Areas, Special Interest Areas, Areas of Critical Environmental Concern, wilderness areas, relict areas, wild and scenic river corridors, national parks, national monuments, wildlife refuges, Wilderness Study Areas and other special natural areas. Careful management means no scheduled

or salvage logging. Hazard trees may be upset, but left on site.

8. NPSO advocates the protection of wetlands. Many forested wetlands are destroyed during road-building and logging.

Management and Monitoring

9. NPSO believes that "new forestry" and adaptive management techniques should be closely monitored to track the achievements of research and management objectives. The focus of adaptive management areas should be on restoration projects rather than production or resource exploitation. Research should be conducted cooperatively by forest scientists and resource managers, and should identify the most efficient management practices compatible with maintaining sustained yields, and removal with minimal degradation to the land.

10. NPSO encourages agencies to manage and monitor the harvest of special forest products, including fungi, bryophytes, lichens and other botanical material collected for commercial or personal use. Since the effects of removing these biota are unknown, careful regulation and monitoring are needed, especially in riparian areas and special management areas. Inventories of impacted species should be conducted to assure that the resource is adequate and sustainable. Collectors and buyers should be certified.

11. NPSO advocates management of Oregon's forests at the watershed level. The fragmentation of our forests through road-building and clear-cutting had produced ecosystem islands. To compensate for this fragmentation, we encourage landscape-level management standards and guidelines. Management objectives should ensure ecological functions such as dispersal of organisms, carry-over of species in time from one stand to the next, and maintenance of structural components such as downed woody material. We encourage improved communication between federal and state agencies to manage for contiguous areas by considering the effects of manipulations of each unit on the entire watershed.

12. NPSO acknowledges the threat to native plant communities from the invasion of non-native plant species. We recommend appropriate management practices that reduce this threat, such as removal and control of invasive exotic species, closing of unused logging roads followed by revegetation with native species, and proper

cleaning of equipment.

13. NPSO advocates multi-use management that includes a strong educational component regarding the ecology of our forest resources. We recommend management that monitors and limits the impacts from recreational use, especially in Research Natural Areas, Wilderness Areas, and riparian reserves.

14. NPSO supports the development of standards and guidelines for the control of natural fires and the use of prescribed fire in the management of forest ecosystems. This is especially important east of the Cascades where suppression of natural fire has resulted in increased susceptibility of forests to insect damage.

15. NPSO supports adherence to the full environmental review process for proposed grazing leases and their renewal with particular attention to sensitive plant species and/or communities. We advocate the establishment and enforcement of strict standards and guidelines for conducting plant inventories in grazing lease areas, and for setting grazing lease boundaries to exclude locations of sensitive plant species. We advocate the maintenance and monitoring of drift fences and gates at high elevations where plant communities are particularly fragile. We advocate open bid competition for leases and the use of lease revenues for plant inventory and protection activities.

16. NPSO believes that monitoring of all land management activities is the essential key to professional land management. Monitoring must include biological, edaphic and physical effects on all associated resources over the period of time necessary to determine the full regime of effects. Monitoring must assess whether project objectives are being met. Funds for monitoring should be budgeted in advance.

17. NPSO advocates replanting logged areas with a mix of coniferous and broad-leaved species to replace, in so far as possible, the native plant species composition of the logged area. The mix of species should depend on the characteristics of the site. Successional forests should be managed to avoid development of monocultures, depending on historic, natural successional patterns. NPSO advocates replanting logged areas with a diversity of genotypes as well as a diversity of species. This can be accomplished by consistently using seed stock rather than cloned material.

Commerce

18. Importation of foreign logs introduces exotic insects, fungi, bacteria and viruses that can devastate native species. NPSO supports the restriction and control of log importation from foreign countries.

19. NPSO supports the discontinuation of raw log exports and all unfinished wood products. We promote the consideration of alternatives proposed in the Sustainable Forestry Initiative of 1994 for altering forest tax structures and establishing community-based restoration development funds.

NEW BULLETIN MAILING COMMITTEE NEEDED

Volunteers are needed to form a new Mailing Committee for the Bulletin. John and Elizabeth King have announced their intention to turn this task over to others, after two years of service to the Society.

In the past, this job has been done by one person (or a couple) with only occasional, emergency relief by substitutes. In the future, the Mailing Committee should, ideally, be composed of at least three persons (or couples) so no one needs to do the job more than once in three months. This would also allow scheduling flexibility.

The monthly task requires picking up the printed Bulletins from the printer in southeast Portland, attaching address labels, and delivering filled mailbags to the Portland Post Office (Hoyt Street station). This activity occurs about the third week of each month; a commitment to timeliness is essential.

Anyone interested, please call Dave Dobak at 248-9242.

PRINTER DONATION REQUESTED

A printer is needed for the NPSO treasurer's computer. A dot-matrix printer (such as Epson MX- or FX-) would be satisfactory.

Anyone wishing to donate, please call Dave Dobak at 248-9242.

Symposium Update

The NPSO Symposium is now only a few months away so I thought I would bring everybody up to date. Registration is slowly but surely coming in and I anticipate that we will fill the room to capacity. Because of this, I urge all to register early and ensure a spot. So far about 40 people have registered, which leaves about 140 openings. I have been getting between seven and fifteen registrants every two weeks, so register early.

We have received many excellent titles and abstracts for all four sessions. The quality of talks appears to be very high and I am sure attendees will enjoy them. They should be appropriate for amateur and professional botanists alike. We still have room for a few talks in the restoration session, so if you are doing any restoration work, call Tom Kaye at 737-2346.

We have activities being planned for the evenings and possibly on Saturday. On Wednesday night, Dr. Art Kruckeberg will share his knowledge of southwestern Oregon serpentine plants. On Thursday evening there will be an open house at the new OSU herbarium with a talk about the ongoing Oregon Flora project. There is also a possibility for some adventurous types to take field trips on Saturday.

Over all, the Symposium would seem to be a success and one that plant enthusiasts will, or should attend.

Bruce Rittenhouse

[The registration form for the Symposium appears elsewhere in this issue]

AN OLD SONG UPDATED FOR THE EXOTIC PEST PLANT COUNCIL

~~O the broom, the bonny, bonny broom~~

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Galium boreale, northern bedstraw, is an attractive wildflower found in Klamath and Lincoln Counties. Can you name five more wildflowers, **each in a different family**, that are native to both Klamath and Lincoln Counties? The first person to submit correct scientific names will win a prize.

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330

Christine Ebrahimi was the first to solve the June puzzle: hackberry, *Celtis reticulata*.

NPSO Funds Field Research

The Field Research Grants Committee received two grant proposals. One was from Scott Jackson, a Masters degree student in Environmental Studies at the University of Oregon. His proposal title is "Pollen and Seed Dispersal in *Lomatium bradshawii* and *Erigeron decumbens*." One central part of Scott's study is the use of fluorescent dye to track pollen dispersal. This interesting technique involves the application of small dye particles to the anthers early in the day. As insects move from the source flower, the dye is transported with the pollen. At the end of the day, surrounding plants up to 800 meters from the source plant are examined with a portable black light for the presence of the dye. Scott's request for \$200 was approved and he was selected as the recipient of the Leighton Ho Field Botany Award.

The other proposal was submitted by Cynthia Page, a Masters degree student in botany at Oregon State University. The title of her proposal is: "Conservation Biology of the Peacock Larkspur (*Delphinium pavonaceum*)."

The central goal of her research will be to relate indices of reproductive success in *Delphinium pavonaceum* with habitat characteristics. Her indices will include: numbers of flowers and follicles, seed set percentage, stem height, and leaf numbers. The information she gathers will be useful for assessing whether this species can succeed and thrive under ruderal habitat conditions. The results will con-

tribute to the development of a formal Recovery Plan for this species by the US Fish and Wildlife Service. Cynthia has also received a \$250 Hardman Award for Native Plant Research. Cynthia was awarded \$750 by the Field Research Grants Committee. The Board of Directors approved an additional \$100 towards Cynthia's research grant to mitigate extra travel expenses.

Dan Luoma, Chair
Field Research Grants Committee

GLOBE THISTLE: IS IT AS HARMLESS AS IT APPEARS?

Globe thistle, *Echinops sphaerocephalus*, has an attractive light blue, globe-shaped flower. It is often found in seed catalogs and gardening books. It can be dried for use in everlasting flower arrangements and is recommended for perennial flowerbeds. Our thinking about this colorful, backyard beautifier usually stops at this point. Yet, there are several documented cases in Oregon, where globe thistle has escaped its planted environment and spread to adjacent lands by its own devices.

One such site was found on the outskirts of Pendleton, Oregon, in a vacant lot of semi-natural land which had no obvious signs of recent human intervention. Seeing a potential for this plant to aggressively spread, a control program was begun and continued on a yearly basis for the next four years. Seed production was eliminated for four years, but still new seedlings continued to emerge on the site, demonstrating the tenacity of this plant to occupy a site even when a control program has been undertaken.

This pattern of introduction, escape, establishment and persistence of non-native plants is being replayed by a wide range of species throughout temperate North America. Some examples in the Pacific Northwest include: purple loosestrife (*Lythrum salicaria*) and Dalmatian toadflax (*Linaria genistifolia* var. *dalmatica*).

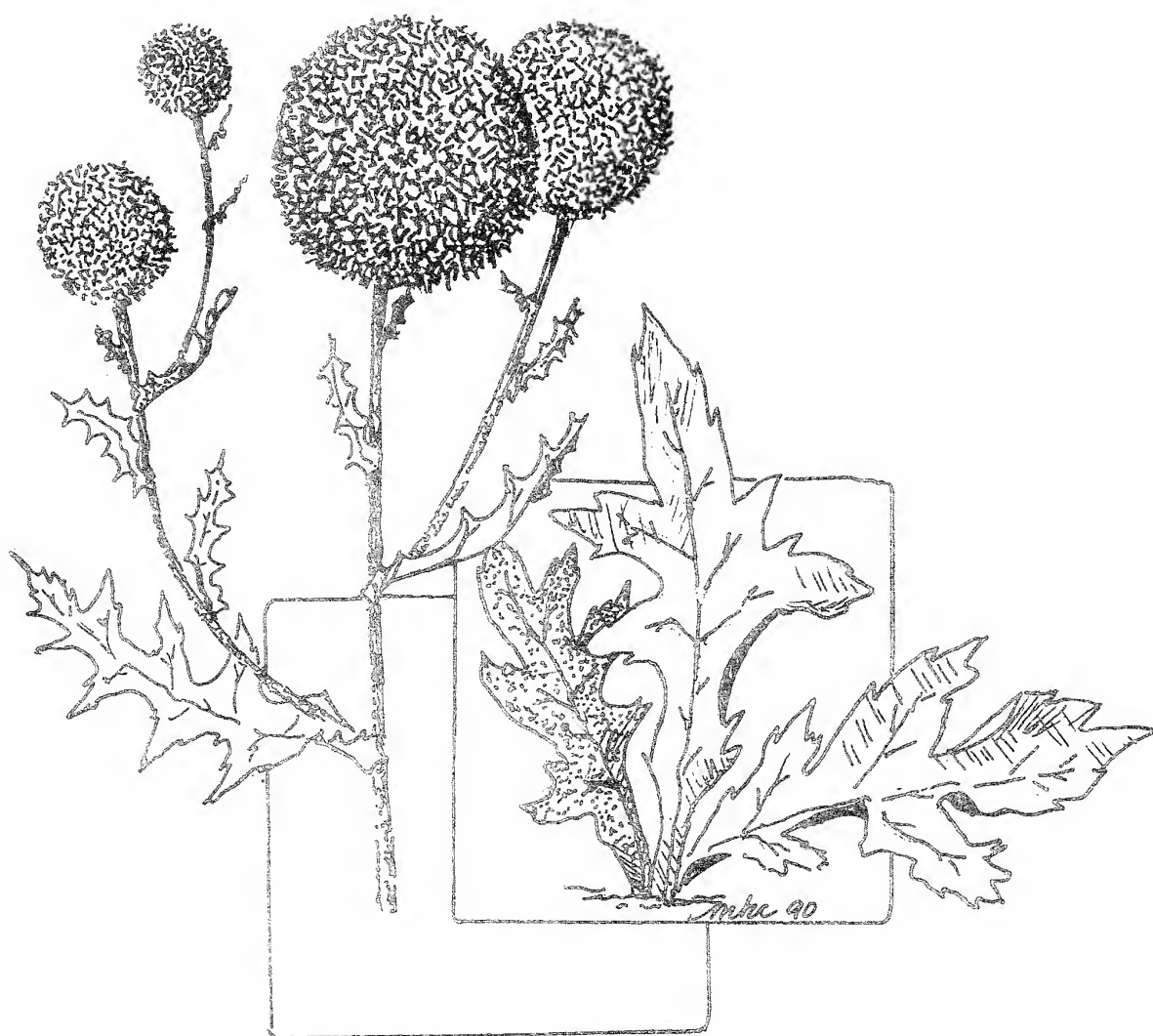
How can we break this pattern of polluting our native flora, natural environments, and productive landscapes? The best place to start is at home. The next time you visit a nursery, ask some questions. Does this plant have the ability to spread beyond its planted area? Is the species listed on a county, regional or state weed list? If you don't get good answers, hold off until you do. It is better to make informed decisions. Besides, the nursery has

many beautiful options, the large majority of which are not aggressive and will not cause you or your neighborhood future headaches.

Mary K. Corp
PNW Exotic Pest Plant Council

This is the first of a projected series on the exotic pest plants of Oregon.

Drawing by Mary K. Corp



The Oregon Plant Atlas Project

It's a natural: the State Board decided to continue and expand support to the Oregon Plant Atlas Project by enthusiastically voting to coordinate field data collect for the project. The State Rare and Endangered Chair position was redefined to include the responsibilities of NPSO Atlas Project Coordinator.:

NPSO R & E Chair

Assist chapters with development of regional R & E lists; this will be greatly facilitated by development of maps through Atlas Project, and entry of herbarium labels through Oregon Flora Project.

Assist chapters needing R & E data from the herbarium (OSU).

Provide assistance to Eastside and Westside conservation chairs on R & E issues.

Encourage chapters to enlist their own R & E coordinators (Bulletin notices).

Write informational articles for Bulletin.

NPSO Atlas Project Coordinator

Identify regional field data coordinators

(see "Volunteers Needed" paragraph below)

Provide information to regional coordinators: field handbooks, maps, target blocks, existing lists, collecting permits, data program and data entry assistance, etc.

Receive and review field data from regional coordinators.

May include coordination with Oregon Flora Project in future.

Write informational articles for Bulletin.

Volunteers Needed!

At the same state board meeting, Bruce Newhouse volunteered for the Project Coordinator position, and Jerry Igo (Mid-Columbia) and Veva Stansell (Siskiyou/South Coast) volunteered to be field coordinators. Although a field coordinator from each chapter would provide excellent coverage, we may combine two or more chapter areas under one field coordinator. The responsibility of field coordinators will be to work with the NPSO Atlas Coordinator to receive procedural information, and to lead or arrange field trips to areas where site plant lists are needed, over the next two or three years. The format for these lists is being developed and will be available soon. If you are interested in being a field coordinator, e-mail Bruce at newhouse@efn.org call 343.2364. (If you wish to be on the mailing list for the Oregon Flora

Project/Atlas Project newsletter, e-mail Scott Sundberg of OSU at sundberg@bcc.orst.edu or call 737.4106.

Bruce Newhouse
Emerald Chapter

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to the members and the public. All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. It is not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest," by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time. For further details, consult the editor.

ORIGINALS: Submissions are not returned, unless requested.

A THOUGHT FOR AUGUST

Annihilating all that's made
To a green thought in a green shade.

STATE OFFICERS

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 IMMEDIATE PAST PRESIDENT Bruce H. Rittenhouse. 550 Fillmore, Coos Bay, 97420-3167; w: 756-0100; h: 888-9328
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 SECRETARY Julie Knurowski Thiel. 6144 Stonehill Ave. S, Salem 97306; 362-2057
 TREASURER Jean M. France. 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, OR 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Allen Bell. P.O. Box 680, White Salmon, WA 98672; 509-493-4212
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) Richard H. Sommer.
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h: 757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ -

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8

() Regular. \$12

() Family. \$18

() Sustaining. \$30

() Patron. \$100

() Life Membership. \$500

() New "Quarter" Membership. \$3

Only for new members

enrolled during September through December

() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

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but not have "membership" status

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

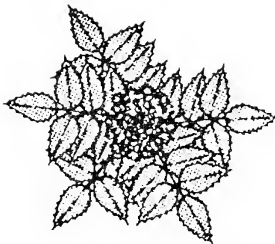
In this issue

The NPSO Forest Policy.	89-91
New Bulletin Mailing Committee Needed.	91
Printer Donation Requested.	91
Symposium Update -- Bruce Rittenhouse.	91
The Plant Puzzle.	92
NPSO Funds Field Research -- Dan Luoma.	92
Globe Thistle -- Mary K. Corp.	92-93
The Oregon Plant Atlas Project -- Bruce Newhouse.	94

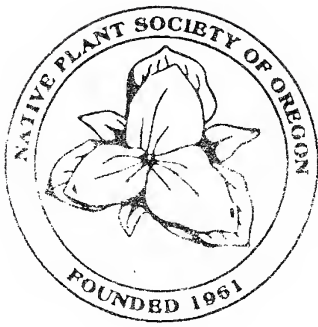
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General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
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Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 9

SEPTEMBER 1995

ISSN 0884-599

State News

Sept. 9, Sat. **State Board Meeting:** 10 A.M. - 3 P.M. in Mosier, at the Mosier School.

Chapter News

Blue Mountain

Meeting: No meetings until October.

Corvallis

Meeting: No meetings until October.

Emerald

Officers: New officers are: Bruce Newhouse, president; Kathy Pendergrass, vice president; Phil Warner, treasurer; Nancy Wogen, secretary; Cheshire Mayrsohn, t & e chair; Rhoda Love & Dave Predeek, conservation committee co-chairs.

Sept. 25, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Dan Segotta, botanist for the Oregon Dunes Recreation Area, will speak on "The effects of exotic plants on Oregon dunes vegetation." For more information, call Kathy Pendergrass, 683-3889.

Sept. 30, Sat. **Work Party:** 9 A.M. to noon. Ethen Perkins will lead a weed pull to help restore the native flora at Morse Ranch Park. Take gloves, your poison oak shield, and tools that will dig up grass and sod. Meet at Morse Ranch parking lot. Call Ethen, 345-3944, if you have questions.

Oct. 23, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. For directions, see above. Paul Hammond, research entomologist from Oregon State University will speak on "Butterflies in native prairies." For more information, call Kathy Pendergrass, 683-3889.

High Desert

- Sept. 26, Tues. **Meeting:** Our first fall meeting will be a potluck at Stu Garrett's, 21663 Paloma Dr., Bend. We will plan for our winter meetings. Please plan to arrive at 6:30 P.M. Call Stu, 389-6981 evenings, if you need directions.
- Oct. 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. This will be our annual members' slide show. Please bring 12 slides you wish to share with us.

Mid-Columbia

- Sept. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Peter Zika, of the OSU herbarium, will present the flowers of the Baja Peninsula.
- Oct. 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Mo and Larry Miles of Milestone Services will tell of their experiences in starting a native plant nursery, and their successes and failures in trying to grow our native plants.

North Coast

- Sept. 26, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. We will plan the winter meetings and future programs and projects for our chapter. Your attendance will be appreciated.

Portland

- Sept. 12, Tues. **Meeting:** 7 P.M., First Methodist Church, 1838 SW Jefferson St., Portland. Bob Misley, Professor of Botany, Clackamas Community College, will discuss the natural history of the Steens Mountains. The meeting room will open at 6:30 for socializing.
- Sept. 16, Sat. **Field Trip:** Mt. Hood. Visit collection sites and examine the issues surrounding the management of and use of special forest products (from Matsutaki mushrooms to blueberries) with John Davis, Forest Service botanist, in an elevational traverse from Old Maid Flat, a low elevation mud flow, to alpine meadows at Timberline. We'll drive between sites, with short walks at each one. Meet, 8 A.M., ODOT lot, 60th & NE Glisan. Second meeting place, 9 A.M., Zig Zag Ranger Station. Contact Mike McKeag at 642-3965.
- Sept. 24, Sun. **Field Trip:** Columbia River shore. Thirty or more species of late bloomers emerge along the river as the water level drops in the fall. Russ Jolley will lead us to sites at Woodward and Louton Creeks on the Washington side. Walking distance 1-2 mi. along river bank and mud flats. Driving: 70 mi. R.T. Meet, 9 A.M., ODOT lot, 60th & NE Glisan. Contact Dee White, 227-2581.

Siskiyou

- Sept. 21, Thurs. **Meeting:** Welcome back potluck/meeting. Meet at the picnic tables across the creek from the upper duck pond at Lithia Park, Ashland, for a potluck at 6 P.M. After the potluck we will go to room 171, Science Building, SOSC, for the meeting at 7:30. Take five of your favorite slides to share at the meeting, or just come and enjoy the slides of others.

South Coast

Call Bruce Rittenhouse, 756-0100 days, for information.

Umpqua Valley

Sept. 14, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Bring and share your experiences with plants -- be it slides, specimens or stories. Help plan the fall/winter schedule.

Sept. 23, Sat. **Field Trip:** Hike the Hemlock Creek Trail that gradually descends 2 miles from Hemlock Lake, at 5,000 ft. elev., to Lake-in-the-woods. Look for *Vaccinium membranaceum* and other seasonal delights. Meet at BLM parking lot, 777 Garden Valley Blvd., Roseburg, for 8 A.M. departure. Call Allan Romeril, 440-2407, for more information.

Willamette Valley

Sept. 18, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. We resume monthly meetings. This month's presentation will be by Julie Knurowski-Thiel on the Table Rock Wilderness Study Project. Also bring ideas for next season's officers.

Wm. Cusick

Meeting: First regular fall meeting in October.

Planning Meeting: The Blue Mountain and William Cusick chapters are excited to announce that we will host the 1996 NPSO Annual Meeting in our neighborhood in May or June. Stay tuned for details! We will have our first organizational meeting in September. Call Barbara Russell, 963-7495, if you are interested in participating. We need all kinds of talents.

Field Trip: Sedges and willows in early September. Call Barbara Russell, 963-7495, for information on place, date and time.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Ancient Forest Picnic

The Oregon Natural Resources Council hosts its 5th annual Ancient Forest Picnic at Oxbow Park, on the banks of the Sandy River, Sunday, September 17, 11 A.M. to 6 P.M. Swimming, guided hikes, through ancient forests, volleyball, music, a raffle, and all you can eat of corn on the cob, garden burgers, salads and watermelon for \$10 adults, \$5 for children. The proceeds will benefit ONRC's Ancient Forest Campaign. For information or directions call ONRC at 223-9007, extension 209.

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For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

REGISTRATION FORM

CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA, NOVEMBER 15 - 17, 1995

Name _____

Organization _____

Address _____
City _____ State _____ Zip _____

Registration Fees	Amount
Registration (NPSO members \$50, non-members \$60)	_____
Special Student Rate (\$30)	_____

Banquet Specify: meat _____ or vegetarian _____ (\$13) _____

Donation \$25 \$50 \$75 \$100 Other _____
TOTAL _____

Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.

We Welcome New Members Joining From 4/7/95 to 8/6/95

At Large
Russell Link
Don Mansfield

Blue Mountain
Lee M. Duncan
Joan Soderstrom

Corvallis
Francisco J. Camacho
Jack and Karen Hayden
Ruth Vinal
Randall Wildman

Emerald
Mabel Armstrong
Andrea Cioffi
Pat French
Roger Gossler
Jim Landon
Deborah Lares
Kristen Lohse
Caroline Manewal
Barbro McCree
Cheryl Schultz
Diane TenEyck

High Desert
Joel M. Depper
Dan Huber, Jr.
Leah M. King
Mitch and Thesea Rogers
Carrie Stilwell
Roger and Kathy Wolcott

Mid-Columbia
Sarah Crump
Patty Neuwirth
Susan Nugent

North Coast
Margaret Johnson
Beth Kandoll
Heidi Melton
Mary Lou Tierney

Portland
Ken Barker
Brenda Clark
Duane and Dana Diller
Tom Foster
Dianne Froode
Beth Gibans
Susan Imbrie
Wes Jarrell
Beverly Klock
Kirstin Labudda
Kathryn Littlefield
Elisabeth Magnus
Susan Nelson
Patt Opdyke
Lona Pierce
Jim Rack
Don Shula
Trygve Steen
Beth Stout
Arlene Tugel
Sara and Timothy Wagner
Sam K. White
Joseph E. Yuska
Nancy Zapotocki

Siskiyou
Jean Danielson
Melissa Dixon
Katy Marshall
Donna Pioli and Michael Kaplenk
Wes L. Reynolds

Willamette Valley
Michael J. Babbitt
Roy Blomgren
Char and Robert Blumenstein
Glenda Cheshire
David Greysmith and Lorraine Milan
Esther and Walton James
Lenore L. Kipp
Bob and Judy Oliver
John Savage
Carolyn Weber
Pamela Wood

William Cusick
Peggy and Bob Brown
Sue and Doug Dilts
Ruth Medhaug

Reviewers Wanted

The Washington Department of Fish and Wildlife is looking for people to review sections of a book titled **"Landscaping for Wildlife in the Pacific Northwest: a manual for urban and rural properties."** The book is for anyone interested in planning, designing and maintaining wildlife habitat in a landscape setting. It uses common habitat models to orient the reader to a plant community and suggests specific plants to use for particular needs. The focus is on small (one to twenty acre) private properties but includes information for public open-space managers and suburban and urban yards. Readers who will find the book useful include professional wildlife managers, farmers, woodlot owners, landscape architects, gardeners and nursery managers. The geographic setting includes Oregon, Washington and southern British Columbia. The book will be from 250 to 300 pages in length, contain color plates and line drawings, and include much information on native plant and wildlife relationships.

For more information, or to obtain a table of contents from which to choose sections to review, write to:

Russell Link
WA Dept. of Fish and Wildlife
16018 Mill Creek Blvd.
Mill Creek, WA 98012

NEW BULLETIN MAILING COMMITTEE NEEDED

Volunteers are needed to form a new Bulletin Mailing Committee. John and Elizabeth King have announced that they will turn this task over to others, after two years service to the Society.

This job has been done by one person (or a couple) with only occasional, emergency relief by substitutes. In the future, this Committee should, ideally, be composed of at least three persons (or couples) so no one needs to do the job more than once in three months. This would allow scheduling flexibility.

The monthly task requires picking up printed Bulletins from the printer in southeast Portland, attaching address labels and delivering filled mailbags to the Portland Post Office (Hoyt St. station). This occurs about the third week of the month; a commitment to timeliness is essential. If interested, please call Dave Dobak at 248-9242.

Ivy Pulling Supervisors Needed

If we want healthy forests in the future, we have to control the English ivy now, according to Fred Nilson, Portland Parks Arboriculturist. Ivy is the most ominous threat to our urban woodlands simply because it thrives in the same shady situation that favors the development of conifer forests. Even our shade tolerant conifers cannot seed in a bed of ivy, disrupting the natural succession of our forests. It also chokes out some of our favorite native plants, displacing the wildlife species which depend upon them.

Portland Chapter member, Diane Bauer, has taken the initiative to start a "No Ivy" campaign for Mary S. Young State Park in West Linn. This park has wonderful potential to return to a native forest understory once the ivy is kept in check. Diane has recruited help from West Linn Parks and State Parks to start a volunteer effort. Now she needs help from us. She is asking for NPSO volunteers to work largely as supervisors for scouts and other volunteers. We'd be asked to see that they don't take anything native, don't get into poison oak (there's not much), follow safety procedures, etc. Supervisors are needed for both weekend and week day afternoons this fall and winter. **Call Diane at 257-1783 or Steve Mills, with the city of West Linn, at 557-4700, if you can help out.** (West Linn Parks, which will be contracting with State Parks to take over the management of Mary S. Young, is considering re-landscaping the parking area with natives. If you talk to Steve, be sure to express your support for this idea.)

Mary Vogel
Portland Chapter

FRIENDS OF FOREST PARK HOST TERENCE O'DONNELL

Terence O'Donnell, author of "That Balance So Rare; the story of Oregon," will speak at the Friends of Forest Park Annual Meeting on Saturday, October 21, 10 A.M., Audubon Society, 5151 NW Cornell, Portland. The program, "The Face of a Place," will explore how the landscape of Oregon, like the a person's face, has been changed by its history. The program has been made possible by the Oregon Council for the Humanities, an affiliate of the National Endowment for the Humanities. It is free and open to the public. Contact Lee Kellogg, 223-5449, for information.

***Sidalcea hirtipes*: Is a Native Plant Gaining a Roothold After Biological Control of a Weed ?**

Since 1980 I have periodically visited an abandoned pasture at Three Rock Road in the Cascade Head Scenic Research Area north of Lincoln City. At my first visit the vegetation was nearly a monoculture of the introduced weed *Senecio jacobaea* (tansy ragwort). This site is part of an intensive biological control research project on *Senecio jacobaea* by Peter McEvoy, Entomology Department, Oregon State University. After a successful biological control of ragwort in 1983, perennial grasses became the dominant plant species and *S. hirtipes* began to increase and spread in the eastern corner of the field. Observations that this population of *S. hirtipes* may be increasing after a decline in tansy ragwort prompted this research during the field season of 1994.

The objective of this research was to assess populations of *S. hirtipes* in the Siuslaw National Forest. The sites studied were: Three Rocks Road, Hart's Cove and Road's End. A list of the plant species in the background vegetation at the sites, estimate of *S. hirtipes* densities at each site, and recommendations for management and future research were submitted in report form to the NPSO Grants Committee.

At the Three Rocks Road site, the population appears to be one large clone. The presence of elk was evident by scats, chewed flowering stalks and trampling of the general area. A total of 44 chewed flowering stalks were observed in 1994. Over the years I have noted that *S. hirtipes* rarely sets seed, the flowering stalks being eaten and trampled by elk before seeds can mature. *S. hirtipes* appears to be increasing since the decline of *Senecio jacobaea*, either as a result of the change in the composition of the vegetation at the site after a decline of tansy ragwort, favorable germination of seeds or of spreading rhizomes, or changing conditions.

Hart's Cove is in the Neskowin Crest Research Natural Area, which was established in 1941 as an example of a Sitka spruce (*Picea sitchensis*)-western hemlock (*Tsuga heterophylla*) forest growing near the ocean. At the end of the Hart's Cove trail is a coastal bluff overlooking the ocean with large patches of *S. hirtipes*, in full bloom in mid-July. The population of *S. hirtipes* at this site appeared to be in healthy condition, with flowering stalks,

seed heads and dispersed seeds. A conservative estimate at this site was over 1,000 flowering stalks in scattered patches. The condition of the site was good, except where a number of campers had trampled areas for tent sites.

Road's End is in the Mt. Hebo Ranger District. After a short hike from a parking lot at Road's End, one comes on beautiful meadow areas on a coastal bluff. The *S. hirtipes* was still in full bloom at the end of July, and I found the plants to be in flower, in seed, and with seed already dispersed. The largest populations of *Sidalcea* were found on the lower meadows of the slope on the coastal bluff. The estimated number of *Sidalcea* was over 1,000 at this site also.

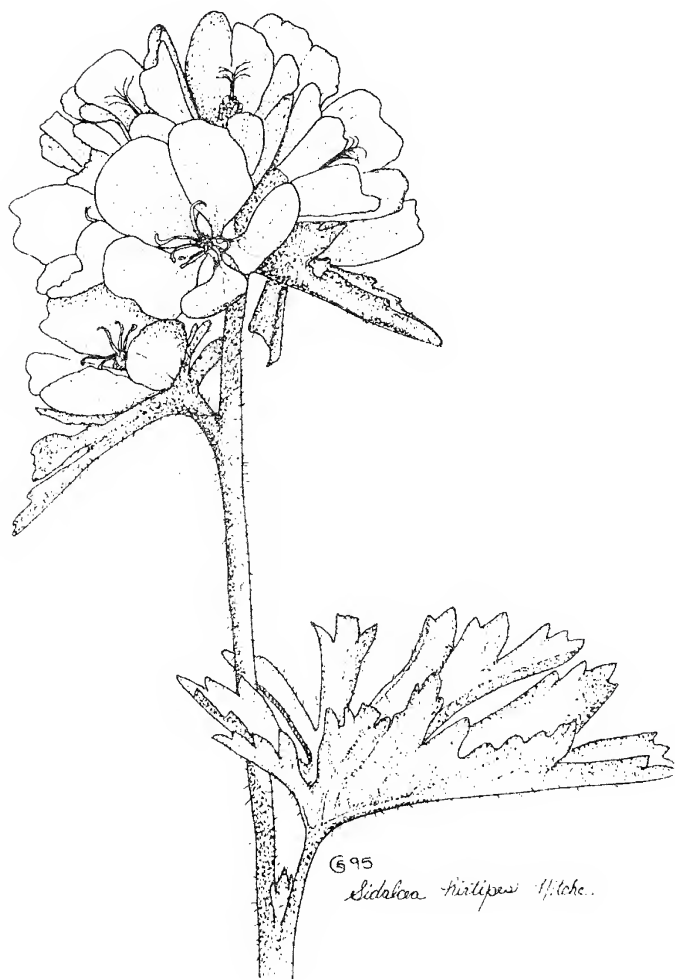
S. hirtipes is a gynodioecious, perennial plant. In this type of breeding system plants have both perfect flowers (stamens and pistils) and pistillate flowers (only female flower). Sometimes morphological differences can be seen between these two types of individuals. *S. hirtipes* is a rhizomatous plant that has patchy distribution with vegetatively spreading clones which makes it difficult to distinguish individual plants. Any assessment of population dynamics is incomplete because individual *S. hirtipes* plants are difficult to distinguish in a population. Currently Dr. Aaron Liston (OSU) is working with his students on isozyme analysis to distinguish clonal asexual plants in populations of *S. nelsoniana* and *S. hirtipes*. This genetic information will help population studies aiming to determine clonal populations and genetic variability in populations of rare plants.

In 1994 the populations of *S. hirtipes* in the state of Washington were declining. *S. hirtipes* is found only in Oregon and Washington. As more people come into Oregon, our coastal property is being developed rapidly. Many of the old recorded sites may not exist any more. This plant is in danger of being isolated to a few undeveloped areas on the coast and to currently protected federal or state lands. At the 1994 Threatened and Endangered Plant Species Conference, it was recommended that *S. hirtipes* be upgraded to a federal category C2 on the USFWS list. This category is for taxa which need more information for possible recommendation for listing. Based on these current population trends of *S. hirtipes* we need to make sure that increased human use of the protected coastal bluffs does not adversely affect their populations. A hike to Hart's Cove, to Road's End or to the Cascade Headland in the

middle of the summer will reward the hiker with a spectacular view of large populations of *S. hirtipes* in bloom.

(This study was made possible by a Leighton Ho Field Botany Award from the NPSO Research Grants Committee for the field season of 1994)

Esther Gruber McEvoy
Corvallis Chapter



Drawing by Esther Gruber McEvoy

“Traveling Tansy”

“Traveling tansy” is a traveling fool. He prefers a long trip over a short one any day. Traveling free is his preference, and when he arrives you can count on a long stay!

Traveling tansy, more formally known as tansy ragwort, *Senecio jacobaea* L., is a poisonous Eurasian weed that often travels with unintentional assistance from us human folks. On its own merits it would be limited to moving down a creek or hopping a neighbor's fence. But with our assistance tansy ragwort is able to go camping in the Blue Mountains, and elk hunting in the Wallowas.

Tansy ragwort is widespread in western Oregon in pastures and occasionally in hay fields. It is often transported in contaminated straw and hay. (Viable seed can also be transported in the digestive systems of horses and pack animals.) These sources have for many years transported tansy ragwort to eastern Oregon. County, state and other land managers on the east side have spent countless hours in efforts to locate and control the resulting new infestations.

Western Oregon, largely through the efforts of the Oregon Department of Agriculture's Weed Control program, has developed a highly successful biological control program on tansy ragwort. The introduced natural predators, a moth, a flea beetle and a seedhead fly, feed exclusively on the exotic plant. These agents have greatly reduced the impact of tansy ragwort in that area. Yet, 250 miles away in eastern Oregon harsh winters have made the agents impossible to establish. This makes it even more critical to stop the continuing re-introduction of tansy ragwort.

Taking preventive actions to stop the transportation of invasive plants along our highways, waterways, railways and recreational trails is a first line of defense against aggressive exotic plant species. We can do this by not driving in weed-infested areas, or by checking the undercarriage of our vehicles, looking out for weedy hitchhikers. One can transport and use only weed-free hay. Cooperative efforts should be established with local agencies and land managers to assist in the fight.

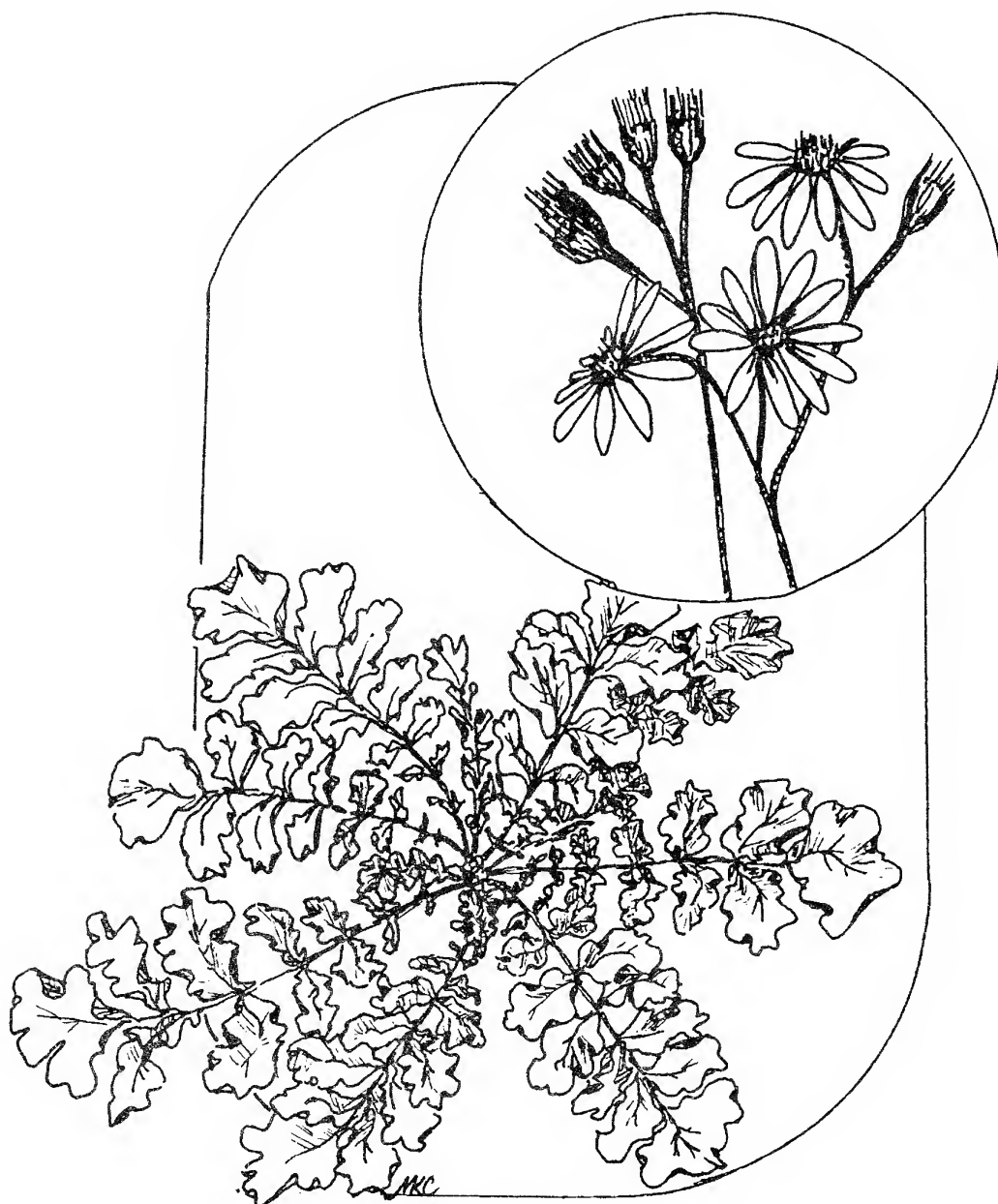
Finally, if you see traveling tansy out in eastern Oregon in your fall travels, be sure and contact the local county weed control program or the Oregon Department of Agriculture, telling them of

the location. Any help with new locations would be appreciated!

Mary K. Corp
PNW Exotic Pest Plant Council

*[This is the second in a series
on the exotic pest plants of Oregon]*

Drawing by Mary K. Corp



Are Bluebells Blue?

The correct answer is "partly," since there is some red in the color of bluebells. In fact, most, if not all "blue" flowers reflect some red when illuminated with white light.

Each of the wildflowers listed below was matched with its own color on as Pantone color chart. In the upper left corner of the chart there is a specific blue color, a phthalocyanine pigment called CYAN. At the opposite corner (bottom right) is a specific red, a monoazo pigment called MAGENTA. Both pigments reflect broadly across the visible spectrum, but the reflectance peak of CYAN is in the blue region of the spectrum and that of MAGENTA is in the red. All the other colors on the chart are intermediate between these two.

Two of the wildflower species tested also contain small percentages of yellow in their reflected color. These are noted in the list below with an asterisk (*).

What was important for this study was whether the flowers were relatively more blue or more red, as measured by the ratio of CYAN intensity to MAGENTA intensity (CYAN/MAG). At the top of the list are the pinkest flowers, having the lowest CYAN/MAG values. At the bottom of the list are the bluest flowers, with the highest values for CYAN/MAG. Note the position of *Campanula rotundifolia* (bluebell). It is left to the reader to decide at what ratio flowers should be called "blue."

Thanks to Waymon Bonner and Robert Harmison of Wy'east Color, Inc. for their kind help in this little study.

Russ Jolley
Portland Chapter

<i>Spiraea douglasii</i>	0.2
<i>Penstemon rupicola</i>	0.3
<i>Plectritis congesta</i>	0.3
<i>Cirsium undulatum</i>	0.3
<i>Lathyrus latifolius</i>	0.3
<i>Dodecatheon jeffreyi</i>	0.4
<i>Lamium purpureum</i>	0.4
<i>Stachys cooleyae</i>	0.4
<i>Dodecatheon poeticum</i>	0.4
<i>Dodecatheon cusickii</i>	0.5
<i>Penstemon barrettiae</i>	0.5
<i>Lomatium columbianum*</i>	0.5

<i>Cirsium arvense</i>	0.5
<i>Sisyrinchium douglasii</i>	0.5
<i>Cirsium vulgare</i>	0.6
<i>Lunaria annua</i>	0.6
<i>Calypso bulbosa</i>	0.6
<i>Arctium minus</i>	0.6
<i>Phlox diffusa</i>	0.6
<i>Cardamine tenella</i>	0.7
<i>Penstemon glandulosus</i>	0.7
<i>Dodecatheon pulchellum</i>	0.7
<i>Dodecatheon hendersonii</i>	0.7
<i>Corydalis scouleri</i>	0.7
<i>Arabis sparsiflora*</i>	0.7
<i>Penstemon richardsonii</i>	0.8
<i>Lathyrus nevadensis</i>	0.8
<i>Brodiaea congesta</i>	0.8
<i>Lupinus laxiflorus</i>	0.8
<i>Penstemon cardwellii</i>	0.8
<i>Lupinus leucopsis</i>	0.9
<i>Vicia americana</i>	0.9
<i>Camassia quamash</i>	0.9
<i>Lupinus polyphyllus</i>	0.9
<i>Campanula rotundifolia</i>	0.9
<i>Viola howellii</i>	1.0
<i>Viola palustris</i>	1.0
<i>Vicia cracca</i>	1.0
<i>Veronica americana</i>	1.0
<i>Veronica scutellata</i>	1.0
<i>Erigeron subtrinervis</i>	1.0
<i>Collinsia parviflora</i>	1.1
<i>Delphinium trollifolium</i>	1.1
<i>Delphinium menziesii</i>	1.1
<i>Lathyrus polyphyllus</i>	1.1
<i>Brodiaea coronaria</i>	1.2
<i>Delphinium nuttallianum</i>	1.2
<i>Delphinium burkei</i>	1.2
<i>Delphinium nuttallii</i>	1.2
<i>Lupinus latifolius</i> var. <i>thompsoniana</i>	1.2
<i>Synthyris stellata</i>	1.3
<i>Cynoglossum grande</i>	1.4
<i>Penstemon subserratus</i>	1.4
<i>Frasera albicaulis</i>	1.5
<i>Synthyris reniformis</i>	1.5
<i>Penstemon ovatus</i>	1.6
<i>Hackelia diffusa</i>	1.7

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DIRECTORS (to 6/97) Dave Dobak, Rhoda Love, Kareen Sturgeon
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 PRESIDENT Michael Igo P.O. Box 603, Mosier 97040;
 IMMEDIATE PAST PRESIDENT . . . Bruce H. Rittenhouse. 550 Fillmore, Coos Bay, 97420-3167; w:756-0100; h:888-9328
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 TREASURER Jean M. France. 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) . . . Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Allen Bell. P.O. Box 680, White Salmon, WA 98672; 509-493-4212
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) . . . Richard H. Sommer.
 WILLAMETTE VALLEY (Salem) . . . Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE . . . Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE . . . Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

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If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
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Send completed form and full remittance to:

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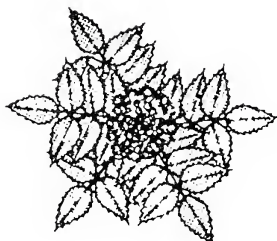
In this issue

Ancient Forest Picnic.	99
We Welcome New Members.	101
Reviewers Wanted -- Russell Link.	102
New Bulletin Mailing Committee Needed.	102
Ivy Pulling Supervisors Needed -- Mary Vogel.	102
Friends of Forest Park Host Terence O'Donnell.	102
<i>Sidalcea hirtipes</i> -- Esther Gruber McEvoy.	103 - 104
Traveling Tansy -- Mary K. Corp.	104 - 105
Are Bluebells Blue? -- Russ Jolley.	106

NATIVE PLANT SOCIETY OF OREGON
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Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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2584 NW Savier St.
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 10

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Legislative Action Needed -- See Inside

State News

Jan. 20, Sat. **State Board Meeting:** 10 A.M. - 4 P.M. in Eugene. Hosted by the Emerald Chapter. The main topic will be adoption of the annual budget. Place to be announced.

Chapter News

Blue Mountain

Oct. 2, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. A planning meeting and some of the slides from summer.

Corvallis

Meeting: No meeting is planned for October. Call Keli Kuykendall, 758-8409, for more information.

Oct. 29, Sun. **Field Trip:** Loren Russell will lead through the old growth forest of Crabtree Valley. Special emphasis on mushrooms and mosses. Meet at 8:30 A.M. at the Monroe Street Beanery. Call Loren Russell, 752-7558, for more information.

Emerald

Oct. 23, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Paul Hammond, research entomologist from Oregon State University, will speak on "Butterflies in Native Prairies." For more information call Kathy Pendergrass, 683-3889.

High Desert

- Oct. 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. This will be our annual members' slide show. Please bring 12 slides you wish to share with us.

Mid-Columbia

- Oct. 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Mo and Larry Miles of Milestone Services will tell of their experiences in starting a native plant nursery, and their successes and failures in trying to grow our native plants.

North Coast

Meeting: Call Christine Stanley, 436-0161, for information.

Portland

- Oct. 8, Sun. **Field Trip:** Big Lava Bed. Fall color at lava beds (take camera) and possible side trip to a cranberry bog (take appetite). Take spare sneakers or boots for wading, lunch and 10 essentials. Easy walk crossing lava beds on portion of Pacific Crest trail. Driving: 170 mi. R.T. Meet at 8 A.M., ODOT parking lot, 60th & NE Glisan. 2nd meeting place, 9 A.M., parking lot at public restrooms, S. end of Bridge of the Gods. Contact Elizabeth Handler-King, 292-6539, for more information.
- Oct. 10, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Bob Frenkel will present a program on restoring the Salmon River salt marsh. The meeting room will be open at 6:30 for socializing.

Siskiyou

- Oct. 19, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Don Todt, Head Horticulturist, Ashland Parks, will speak on ethnobotany along the upper Klamath River.

South Coast

For information on South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

- Oct. 12, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Bring two specimens (roots, seeds, or mature stock) of plant families you are interested in, and be prepared to discuss them with the group. There may be a chance to hear what the USFS and BLM botanists have been doing this field season.
- Oct. 21, Sat. **Field Trip:** Up the North Umpqua River to Swiftwater Park and Susan Creek Park for lichens, mosses and liverworts. Meet at the BLM parking lot, 777 Garden Valley Blvd., Roseburg, for 8 A.M. departure. For more information, call Allan Romeril, 440-2407.

Willamette Valley

- Oct. 16, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Jenny Dimling

of the Willamette National Forest will give a slide presentation on forest flowers.

Wm. Cusick

Oct. 18, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. We will have a dessert potluck to "show and tell" about our summer adventures with plants! Did you discover something new? Want to clear up plant mysteries? Bring your artwork, photos, slides, stories, field notebook, and/or specimens and let's share our experiences. Also bring ideas for our fall, winter and spring meetings. What kinds of presentations would you like to have and who would you like to invite to do them? And last but not least, bring three new people with you to enjoy our camaraderie. Who haven't we seen for awhile? What new friends would enjoy our group? For more information, call Barbara Russell at 963-7495.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.
For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

NEW BULLETIN MAILING COMMITTEE NEEDED

Volunteers are needed to form a new Bulletin Mailing Committee. John and Elizabeth King have announced that they will turn this task over to others, after two years service to the Society.

This job has been done by one person (or a couple) with only occasional emergency relief by substitutes. In the future, this Committee should, ideally, be composed of at least three persons (or couples) so no one needs to do the job more than once in three months. This would allow scheduling flexibility.

The monthly task requires picking up the printed Bulletin from the printer in southeast Portland, attaching address labels, bundling the Bulletins in zip code groups, and delivering filled mailbags to the Portland Post Office (Hoyt Street station). This occurs about the third week of the month; a commitment to timeliness is essential.

If volunteers cannot be found for this task, NPSO will have to contract with a commercial mailing company. This will cost NPSO about \$1500 per year. For this amount of money, NPSO could fund, jointly with the Oregon Department of Agriculture, three summer internships for research on Oregon flora, or a variety of other activities. Which we do is up to you, members. If interested, please call Dave Dobak at 248-9242.

Nominating Committee

Nancy Wallace will chair the committee to nominate state officers for NPSO. One more member of the committee is needed. If interested in serving, call 503-478-3293 and leave a message, or call Nancy at 509-493-1924. Also call if you want to nominate anybody.

Printer Donated

NPSO thanks Cheryl McCaffrey for donating a printer to be used with the treasurer's computer.

Legislative Update

I want to thank all NPSO members who took the time to write their representatives. Many of us have spoken out about our concern over special interest attempts to legislate the liberal use of public resources. Those of you who haven't voiced your opposition or concern should do so without hesitation.

As you know, there has been a flurry of legislation in both the state and federal arenas that attempts to open much of our public land to unbridled extraction. Many of these policies make little or no attempt to address the conservation of biodiversity. As members of NPSO we must make clear our commitment and dedication to the conservation ethic. Please make a point of contacting your representative today about your feelings on these important pieces of legislation.

GRAZING BILL

Senator Pete Domenici (R - AZ) has introduced legislation entitled the "Livestock Grazing Act" (S. 852) that would make grazing the primary use of all BLM and Forest Service lands. According to the BLM Assistant Director, Maitland Sharp, "The bill makes ranching the dominant use and cuts the public out of the process." The bill passed the Senate Energy and Natural Resources Committee by a vote of 11 to 8, and action could take place on the Senate floor at any time. Call your senators today at 202-224-3121 to voice your opposition to the Livestock Grazing Act (S. 852).

FEDERAL ENDANGERED SPECIES ACT

(See also article below)

Legislation has been introduced in the House of Representatives by Don Young and Richard Pombo. It should be coming to a vote by the first of November. Among many other drawbacks, this bill is in the form of "takings legislation," which will require compensation to private landowners for any devaluation in their land. This piece of legislation also attempts to reverse the "Sweet Home" decision, and removes recovery of species as a required goal. Presently, the legislation also contains language that requires the Fish and Wildlife Service to consider private and public captive

bred populations in considering a species for listing.

In the Senate, Slade Gorton is leading the charge with the introduction of S. 768. I suggest you call your representative and request a copy. The document makes interesting reading in light of the fact that it was written largely by timber lobbyists. Please put all the pressure you can on Senator Hatfield to show moral strength in his handling of this issue.

STATE ENDANGERED SPECIES ACT

As you already know, there were many setbacks to environmental regulations in the 1995 state legislative session. Even with a modern record of 52 vetoes by the governor, a number of poor resource policies made it through. HB 2120 did pass the governor's desk, thereby effectively changing the state's Endangered Species Act in a number of ways. The good news is that policies for listing and managing endangered plants remain the same. The bad news is that the portions designed for wildlife have been significantly weakened. Even with its passage, each of us should be aware of our representative's voting record, and we should contact them with an expression of approval or condemnation. Please feel free to call me if you need help with tracking down votes, or with other issues of concern.

RESCISSIONS BILL

Following the passage of H.R. 1944, the Rescissions Bill, now Public Law 104-19, a host of conflicts have arisen over its implementation. Immediately after its passage letters were sent from the Senate supporters of the bill discussing implications of the salvage provisions. One letter made clear that the intentions of salvage provisions have little to do with forest health. Some interesting excerpts follow"

"we are concerned at preliminary reports that the Office of Forestry and Economic Development in Portland, Oregon may be operating under some vital misunderstandings about this legislation, and we want to ensure that any such misunderstandings are corrected before we are unnecessarily in conflict with the Administration. The interpretation of the Office of Forestry and Economic Development is, in several respects, at odds with the results of Administration-Congressional agreements and the terms of legislation. ... We have been informed that the Office of Forestry and Economic Development has suggested that

subsection (k) (2) bars the release of any timber sale unit that has previously been determined to be 'occupied' by a marbled murrelet. This interpretation of the law (1) directly contradicts the agreement reached between Congress and the Administration; (2) imposes language which we explicitly rejected; and (3) is flatly illegal. ... In the event that subsection (k) (2) bars the release of a timber sale unit, subsection (k) (3) requires provision of an equal volume of timber, of like kind and value. The provision of alternative timber under subsection (k) (3), when required, is clearly a component of compliance with subsection (k) (1), and therefore **does not require compliance with environmental laws or other federal statutes** [emphasis supplied] in light of the 'notwithstanding any other provision of the law' language in subsection (k)(1). If your agencies were confused on this point, they should have raised it in our deliberations. Alternative volume under subsection (k)(3) must be provided promptly so that all sales requiring alternative volume can like all the other released sales be operated to completion in fiscal years 1995 and 1996. ... Thus, while the agencies may conduct such conferences under the ESA as they determine appropriate, the agencies may not in any way delay the award, release or completion of the sales described in subsection (k). The same would be true for consultations under section 7 (a) of ESA that may otherwise be required for current or newly-listed species (for example, if the coho is listed as threatened sometime in the future)."

To date I understand the Administration has been resisting efforts toward liberal interpretations, and prescriptions on the ground. If you would like a copy of the environmental voting record of your representative, or additional information on any of these acts, feel free to call me at 281-4124.

Steve Hinton
NPSO Legislative Chair

Blueberries as big as the end of your thumb,
Real sky-blue, and heavy, and ready to drum
In the cavernous pail of the first one to come!

Another Attack on the ESA

Congressman Don Young (R - AK) is expected to file a bill when Congress reconvenes in September. This bill, like S. 768 (the Gorton bill), will virtually dismember the Endangered Species Act. Its provisions include:

- Elimination of protection of habitat for wildlife
- A change in the fundamental purpose of the ESA, which has been the recovery of species
- Allows the Secretary of the Interior to choose virtual extinction of a species by protecting it only from direct killing/extirpation
- Adds "regulatory takings," compensation of property owners for protecting habitat and species under the law, estimated to cost tax payers more than 28 billion dollars over the next eight years.

Recent studies by the National Academy of Science and the Ecological Society of America conclude that the ESA should be strengthened, not weakened. The National Research Council's report found the law scientifically valid and that our main problem with safeguarding species is that we wait too long to protect threatened habitats.

Elizabeth Furse (D - 1st District) was the only member of the Oregon Congressional delegation to sign the pro-ESA Vento letter addressed to the chairman of the House Resources Committee, Don Young and ranking member, George Miller, advocating a strong ESA. Specific issues mentioned in Bruce Vento's letter include the medicinal value of plants, the National Academy of Science's "Science and the ESA" report, habitat conservation, and the benefits of biodiversity. The letter was signed by 129 Representatives, which is a strong showing for the ESA.

If your member of Congress has not yet signed the Vento letter, he or she may still do so. It is important to muster as much opposition to Young's bill as possible -- and as soon as possible. Other Oregon Representatives need to be reminded of the deep concern of Oregonians for our environment and our endangered species. Call your Representative today! (202-224-3121) Write your Representative today! (Longworth House Office Building, Washington, DC 20515). Urge them to sign the Vento letter and to work for a strengthened ESA.

Mariana Bornholdt
Willamette Valley Chapter

WAR ON THE WEST

The invasion of the Pacific Northwest's natural areas by the *Centaurea* complex could be compared to biological warfare. It is both a silent and a deadly invasion. In Oregon the invasion includes *Centaurea diffusa*, *C. maculosa*, *C. virgata* Lam. spp. *squarrosa* Gugl., and *C. jacea* x *C. nigra*, along with *C. solstitialis* L., *C. calcitrapa* L. and *C. iberica* Trev. ex Sprengel.

Yellow star-thistle, diffuse and spotted knapweed have the widest geographical distribution. They have experienced tremendous increases over the period between 1982 and 1992. The increases are indicated by the following data and by maps provided by the Oregon Department of Agriculture. And the encroachment continues.

Distribution of *Centaurea* spp. in Oregon

Species	Year 1982*	Year 1992*	% Increase
<i>C. solstitialis</i> L.	38	197	518%
<i>C. diffusa</i>	53	252	475%
<i>C. maculosa</i>	9	177	1967%

*Number of townships with known populations.

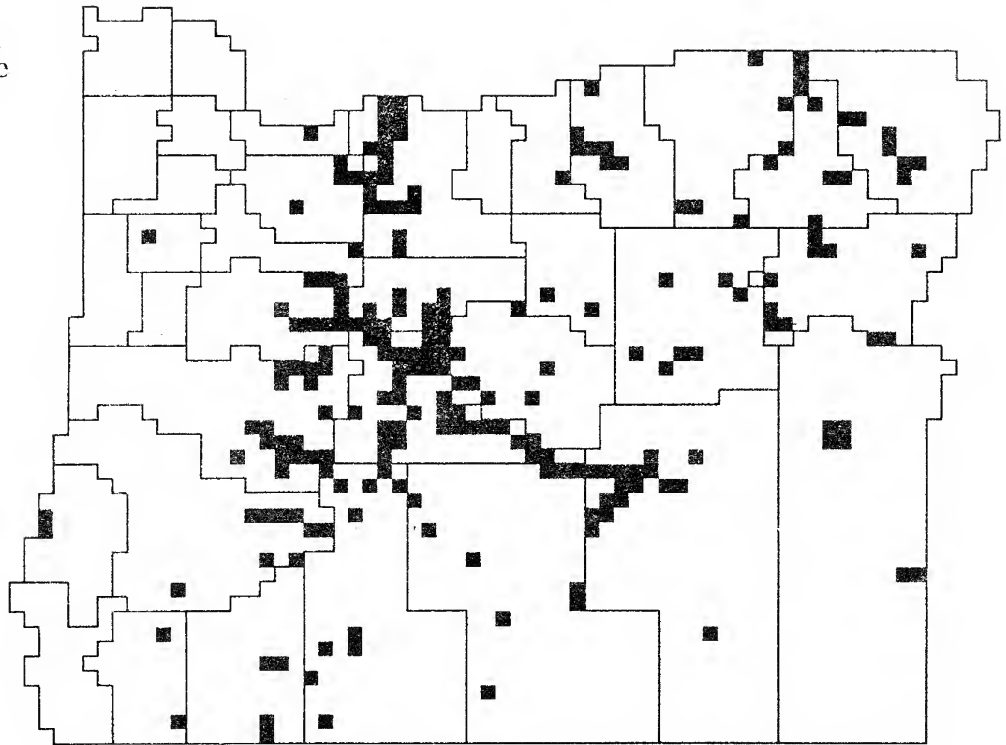
Many professional land managers, research scientists and landowners across the Pacific Northwest are seeking solutions to stop or even manage this invasion of our range and natural areas by these aggressive species. The most promising efforts include the integrated use of combinations of pest plant management techniques. Techniques include competitive grass plantings, hand pulling, biological control agents, herbicides and modified grazing systems including the use of sheep and goats.

The struggle against such aggressive foes can be disheartening even to the most experienced weed warrior. The willpower to continue on, for myself, comes from my love of the beautiful native plants and wildflowers of Oregon. See you on the battelines.

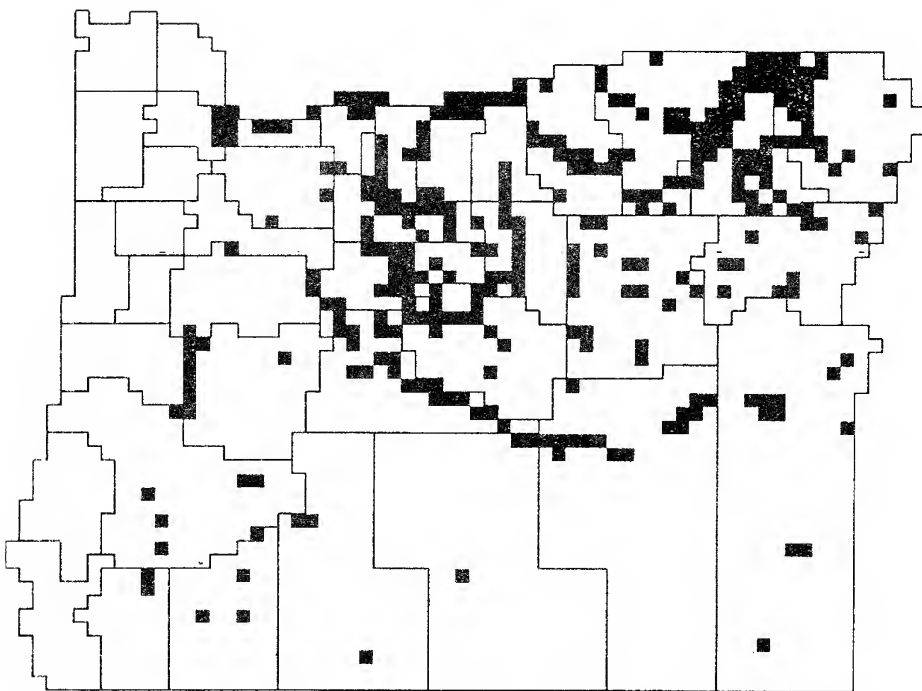
Mary K. Corp
PNW Exotic Pest Plant Council

(This is the third in a series on the
exotic pest plants of Oregon.)

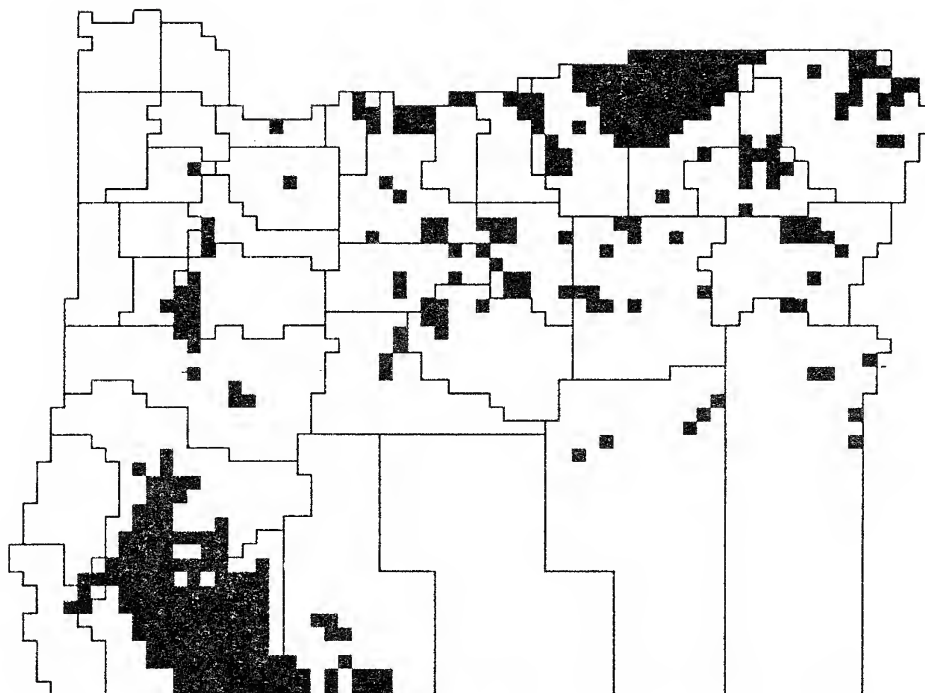
Maps supplied by Oregon
Department of Agriculture



Spotted Knapweed distribution 1992



Diffuse Knapweed distribution 1992



Yellows starthistle distribution 1992

REGISTRATION FORM	
CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA, NOVEMBER 15 - 17, 1995	
Name _____	
Organization _____	
Address _____	
City _____	State _____ Zip _____
Registration Fees	Amount
Registration (NPSO members \$50, non-members \$60)	_____
Special Student Rate (\$30)	_____
Banquet Specify: meat _____ or vegetarian _____ (\$13)	_____
Donation \$25 \$50 \$75 \$100 Other	_____
TOTAL	_____
<p>Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.</p>	

AGENDA

Wednesday, November 15

- 11:00 Registration
1:00 WELCOME, Opening Remarks, Format, Logistics
Session 1: Ecology, Management, and Conservation of Oregon's Rare Plant Species Moderator: *Bruce Rittenhouse*
1:05 Keynote Address: Conserving native plants in native ecosystems.
Reed Noss
1:50 Patterns of rarity in the Oregon flora.
Thomas Kaye, Robert Meinke, Kenton Chambers, Jimmy Kagan, Sue Vrilakas, Julie K. Nelson, and Peter Zika
2:10 Assessment of vascular plants of the interior Columbia Basin.
Lisa K. Croft
2:30 Break - Refreshments and Poster Viewing
2:50 Taxonomic grays vs. black and white expectations: Implications for conservation management of biodiversity.
Barbara Ertter
3:05 Long term demographic studies are needed to assess population trends reliably.
Ed Guerrant
3:25 Development of a long term monitoring program aimed at conservation and recovery of endangered species.
David K. Imper
3:45 Break - Poster viewing
4:05 Counting rare plants in quadrats: getting better information with less effort.
Dan Salzer
4:25 The influence of light and other environmental factors on the reproduction in *Bensoniella oregana*.
Larry Levine
4:40 The distribution and rarity of *Sedum radiatum* in Oregon.
Peter Zika
6:00 No host social, Ramada Inn
7:00 Banquet, Ramada Inn
8:00 Keynote Speaker: Serpentine Floras - Oregon and Beyond
Art Kruckeberg

Thursday, November 16

- Session 2: Bringing back the natives: Restoration of Oregon's native plants and communities.** Moderator: *Rhoda Love*
8:30 Keynote Address: Restoration in the new world order: science, politics, esthetics, and public perception.
Linda McMahan
9:00 Weed control as the first step in restoring native plant communities.
Berta Youtie
9:20 Siuslaw National Forest native plant species program: using natives in revegetation.
Katie Grenier and Ginger Craig
9:40 Growing and using native grass seed for restoration in southwestern Oregon.
Wayne Rolle

NPSO SYMPOSIUM

- 10:00 Changes in native plant species composition associated with wetland loss and mitigation.
Teresa Magee, Kathleen Dwire, Ted L. Ernst, and Mary E. Kentula
10:20 Break - Refreshments and Poster viewing
10:35 The co-dependence of native plants and the Fender's blue butterfly.
Mark Wilson, Paul Hammond, and Cheryl Schultz
10:55 Restoring habitat for the Fender's blue butterfly requires restoring populations of its larval hostplant, the Kincaid's lupine.
Cheryl Schultz
11:15 Restoration of soil foodweb structure with implications for native bunchgrass restoration.
Roxanna Johnston, Elaine Ingham, and Jayne Belnap
11:35 Poster Viewing
12:00 Lunch - on your own - Return by 1:15
Session 3: Systematics, ecology, and biogeography of Oregon's native plants and communities Moderator: *Thomas Kaye*
1:15 Keynote Address: Future needs for taxonomic research on Oregon's flora.
Kenton Chambers
1:45 Oregon's seaweed flora: depauperate or just understudied?
Gayle I. Hansen
2:05 *Ribes* diversity in Oregon: Recent, rapid radiation and habitat specificity.
Wes Messinger and Aaron Liston
2:25 What IS Douglas hawthorn?
Tim A. Dickinson and Rhoda Love
2:45 Break - Refreshments and Poster Viewing
3:00 Consequences of forest fragmentation for the understory plant, *Trillium ovatum*: changes in demography and biotic interactions.
Erik S. Jules
3:20 Taxonomic status of *Limnanthes floccosa* ssp. *bellingneriana*.
Darleen Southworth and Joan SeEVERS
3:40 What is *Carex globosa* and is it in Oregon?
Keli Kuykendall, Peter Zika, and Barbara L. Wilson
4:00 Break
4:10 The genus *Astragalus* in Oregon.
Aaron Liston
4:30 What is the native fescue of Oregon's Willamette Valley?
Barbara L. Wilson and Aaron Liston
4:50 The demarcation of historical from ecological variance in species diversity patterns.
James Lyons-Weiler and Robin Tausch
7:00 Open House - OSU Herbarium

Friday November 17

Session 4: The 'lower' world of Oregon's floral diversity - bryophytes, lichens and fungi. Moderator: Dan Luoma

- 8:00 Keynote Address: Mosses and the meaning of life
David Wagner
- 8:40 Towards a RED list for Oregon fungi.
Mike Castellano
- 9:00 Species of special concern
Nancy Weber
- 9:20 Biogeography of rare lichens from the coast of Oregon.
Bruce McCune
- 9:40 Break - refreshments and Poster Viewing
-
- 10:00 Ecology of vagrant lichens in arid steppe communities.
Roger Rosentreter
- 10:20 Survey of cryptogams on McDonald-Dunn Forest.
Francisco Comacho, Nick Otting, and Teresa Lebel
- 10:40 *Pseudocyphellaria rainierensis*, an old-growth associated epiphytic cyanolichen, endemic to the Pacific Northwest.
Stephen C. Sillett
- 11:00 *Phaeocollybia*, herbaria and the perception of rarity.
Lorelei Norvell
- 11:20 Moss harvest: What's out there, and how fast does it grow?
Jeri Peck
- 11:40 Bryophytes associated with *Acer circinatum*: recovery and growth following harvest.
Nan C. Vance and Melissa J. Kirkland
- 12:00 Concluding Remarks and thanks
Bruce Rittenhouse

POSTERS

The following are titles of posters which will be on display:

- Regeneration biology of *Erigeron decumbens* var. *decumbens*. Deborah Clark, Cheryl Ingersoll, and Karen Finley.
- Ecology and conservation of Wolf's evening primrose (*Oenothera wolffii*) in northwestern California. David Imper.
- Ecology and management of the endangered western lily (*Lilium occidentale*) in northwestern California. David Imper.
- Native Plant Society of Oregon: Conservation action at the chapter level. Kate Dwire.
- The statistics required to analyze permanent plot data: a case study using *Dodecatheon austrofrigidum*. Andrea Raven.
- Reproductive system of the rare species, *Kalmiopsis fragrens* (Ericaceae). Matt Carlson, Robert Meinke, and Steven Gisler.
- Seed predation and abortion in *Sidalcea nelsoniana* (Malvaceae): implications for the recovery of a listed species. Steven Gisler and Robert Meinke.
- An evaluation of native grass seeding following fire on sagebrush steppe in south central Oregon. Dave Pacioretty, Steve Beverlin, Tony Svejar and Kara Painter.
- The Role of the Berry Botanic Garden seed bank in plant conservation efforts in the Pacific Northwest. Ed Guerrant
- Reintroducing *Penstemon barrettiae* at Bonneville Dam. Will Simonds.
- Localization of nickel in leaves of *Thlaspi montanum* ssp. *siskiyouense*. Sara May Heath, Darlene Southworth, and Jad D'Allura.
- Ecology of hackberry (*Celtis reticulata*) in the Pacific Northwest. Ann DeBolt.
- Are there rare *Ribes* in Oregon? Endemism and genetic erosion in native species. Wes Messinger.
- Ten years amongst the snow plants. Dan Luoma
- Assessment of ectomycorrhizal mushroom and truffle diversity. Dan Luoma.
- The lichen genus *Peltigera* in Oregon. Laura Wilson.
- Moonwort madness: *Botrychium* in Washington and Oregon. David Wagner.

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DIRECTORS (to 6/97) Dave Dobak, Rhoda Love, Kareen Sturgeon
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 TREASURER Jean M. France. 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) . . Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Allen Bell. P.O. Box 680, White Salmon, WA 98672; 509-493-4212
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) . . Richard H. Sommer.
 WILLAMETTE VALLEY (Salem) . . Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE . . . Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE . . . Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

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Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

In this issue

New Bulletin Mailing Committee Needed.	112
Nominating Committee Formed.	112
Printer Donated.	112
Legislative Update -- Steve Hinton.	112 - 113
Another Attack on the ESA -- Mariana Bornholdt.	114
War on the West -- Mary K. Corp.	114 - 116
NPSO Symposium.	116 - 118

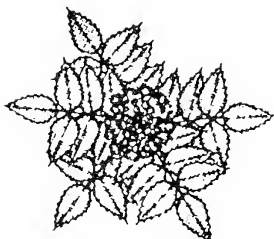
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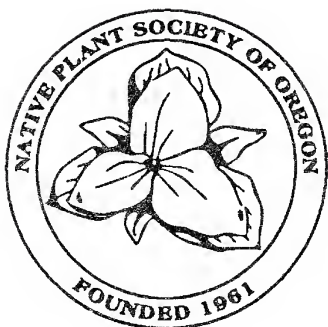
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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 28

NUMBER 11

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State News

Jan. 20, Sat. **State Board Meeting:** 10 A.M. - 4 P.M. in Eugene. Hosted by the Emerald Chapter. The main topic will be the adoption of the annual budget. Location to be announced.

Chapter News

Blue Mountain

Nov. 6, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Paula Brooks, botanist with the Wallowa-Whitman National Forest, will show slides on the wildflowers of the Elkhorns.

Dec. 4, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Presentations and discussions regarding the NPSO Symposium in November.

Corvallis

Nov. 13, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Loren Russell presents "Rock plants of Oregon mountains: the Siskiyou, Cascades and Wallowas." For more information, call Keli Kuykendall at 758-8409.

Emerald

Oct. 28, Sat. **Field Trip: (Late development. Note date.)** Bruce Newhouse will lead a trip to identify and mushrooms for the Mt. Pisgah mushroom show (which is held on the next day) Meet at S. Eugene H.S. parking lot, (19th and Patterson) at 9 A.M. For more information call Bruce at 343-2364.

Nov. 27, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E.). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Dan Luoma will present "New insights on the Monotropeae (Indian pipes and relatives)." He has much new information since his last talk here on the subject. For more information call Kathy Pendergrass at 683-3889.

High Desert

Meeting: No meeting in November or December.

Mid-Columbia

Nov. 1, Wed. **Meeting:** 7:30 P.M. Mosier School. Marty Stein, head botanist at Mt. Hood N.F. will show slides and a video of some of his favorite places and plants in northeastern Oregon.

Dec. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Ron Graves will talk about the restoration project in the Buck Hollow watershed.

North Coast

Nov. 5, Sun. **Field Trip:** The mushrooms of Cape Meares. Meet at 10 A.M. at the Tillamook P.U.D. to car pool, or at the Cape Meares parking lot by the kiosk. Call Jaylen Jones at 842-7710 for more information.

Nov. 28, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell. Larry Scofield, a BLM botanist with the Tillamook Resource Area, will speak on the "Celebrating Wildflowers" initiative. Call Christine Stanley at 436-0161 for more information. **Note: the meeting may have to be rescheduled if highway 101 is closed south of Cannon Beach.**

Portland

Nov. 14, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson Street, Portland. John Kallas of Wild Food Adventures will talk on the wild foods of the forest wilderness. The meeting room will be open at 6:30 for socializing.

Nov. 29, Wed. **Committee Meeting:** 7 P.M. Field trip planning for 1996. Offer your suggestions for destinations and leaders. Help sketch the field trip calendar for the coming year. Where would you like to go? What would you like to learn? Who would you like to learn it from? We will meet at the field trip chairman's home for a brainstorming session. Contact Mike McKeag at 642-3965 for directions.

Siskiyou

Nov. 9, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Frank Lang, a professor of botany at SOSC, and Kay Atwood, a local historian, will give a slide presentation, "Evans Creek: Changes on the Land." Please note the meeting date, which was changed from our usual date so as not to conflict with the native flora conference in Corvallis.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

Nov. 9, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Linda Benson of Oakhill Farms Native Plant Nursery will show and discuss the use of native plants in the home landscape. She will bring representative samples.

Nov. 11, Sat. **Field Trip:** Explore seashore plant communities near Carter Lake on the Oregon coast. Leave at 8 A.M. from BLM parking lot, 777 Garden Valley Blvd., Roseburg, or meet at the Dunes RNA at 9:30 A.M. Call Richard Sommer, 673-3709, for more information.

Willamette Valley

Nov. 20, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Glenn and Barbara Halliday will consider "The lilies of the field," at least those of Washington, Oregon and California.

William Cusick

Nov. 8, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. Charley Johnson, ecologist for the Wallowa-Whitman, Umatilla, Malheur National Forest, will present a slide show on one of his favorite topics -- the alpine plants of the Wallowa Mountains.

Nov. 11, Sat. **Work Day:** This is a Gangloff Park restoration day. The restoration of Gangloff Park continues. There is always something to do. We may plant, rake and do some earth moving, or whatever needs to be done. Come join the fun!!! Take shovels, rakes, gloves, lunch and water. Stay a couple of hours or all day. Meet at the Park at 9 A.M. Call Barbara Russell, 963-7495, for more information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.
ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.
BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.
FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.
For further details consult editor.
ORIGINALS: Submissions are not returned, unless requested.

We Welcome New Members Joining From 8/7/95 to 10/9/95

At Large

Sarah Brown
Ferne Carter Olschewsky

Corvallis

Catharine Cory
Sami Gray
Alberta M. Pierce
George and Roberta Poinar
Barbara Ross
Kelley Stearns
Laura Wilson

Emerald

Jennifer Gardner
Daniela Roth

High Desert

Renee Roufs

Mid-Columbia

Tom Atkins
Arlene Larison

North Coast

Cappy Tosetti

Portland

Derek E. Cartwright
Sarah Dwigins
Kathleen Gow
Jennie Jaeger
Bruce, Ober and Nickie Keys
Cheri Kuhn
Margie Mayfield
Mike O'Brien
Julie, Kern and Terry Papavero
Tiffany Ryan
Sam and Evelyn Sanchez
Carolyn Stapleton

Siskiyou

Jim Curtis II
Tim Brandy's Cross Grade class, Walker School

Siskiyou-South Coast

Dennis Phillips

Willamette Valley

Dana Field
Donna Seutter
Patricia Williams

Congress and the Environment It's Not Too Late

The ESA

Reauthorization of the Endangered Species Act by the present Congress is extremely unlikely as is a continuing resolution to extend it. Instead, several new bills have been introduced, two of which have made it to the House floor in Washington, D.C. ESA supporters should urge their PNW legislators to oppose H.R. 2275, the Young-Pombo bill, and instead cosponsor H.R. 2374, the Endangered Natural Legacy Protection Act of 1995, introduced by Representative Gilchrest (R-MD). (While not perfect, H.R. 2374 is the best of the lot and may be proffered as a compromise at House-Senate conference committee time.)

On the Senate side, the Gorton bill (S768) has been replaced by a bill to be introduced by Senator Kempthorne (R-ID), best described as a Pro-Extinction ESA Reauthorization Act. Senator Hatfield, Oregon's remaining Senator, needs to hear from ESA supporters that the Kempthorne bill is as unacceptable as S768.

"Sufficiency Language"

Sufficiency language bars judicial challenges to actions taken as authorized by Acts of Congress. Activists should let both their legislators AND the Administration know that the Appropriations bill for Energy and Water (which contains Hatfield's BPA Salmon Cap) is unacceptable, because of its sufficiency language. The President should also be asked to veto the Interior and VA-HUD bills as well, if they contain sufficiency language.

Also, continue to express your disappointment to the President for his agreeing to the Salvage Rider to the FY 1995 rescissions bill. (This allowed skirting environmental laws to permit timber sales in National Forests.) Hopefully, he can be discouraged from ever agreeing again to sufficiency language, since it precludes citizen challenge.

"Thank-You's"

Environmentalists should continue to deluge the White House with calls and letters thanking President Clinton for his stance to prohibit drilling in the Arctic National Wildlife Refuge (the Budget Reconciliation Act) and urging him to maintain it. Conservationists should also be loud and vocal in their protests of timber sales, particularly to NW legislators and Governor Kitzhaber. And, they

should commend Governor Kitzhaber for his initiative in mobilizing western governors in opposition to the Salvage Rider, and in support of protection for our ancient forests.

More Information

For updates, contact: US Fish and Wildlife Service Hotline: Phil Carroll, Regional ESA Coordinator, Portland 503) 231-6746; Pat Foulk, Regional ESA Coordinator, Sacramento (916) 979-2710.

Some Addresses

President Bill Clinton
The White House
1600 Pennsylvania Ave.
Washington, D.C. 20500

Senator Mark O. Hatfield
711 Hart Senate Office Bldg.
Washington, D.C. 20510
(202) 224-3753
Oregon Office:
Special District Center
727 Center St. NE, Suite 305
Salem, OR 97301
(503) 326-3386

Congressman Jim Bunn
1517 Longworth House Office Bldg.
Washington, D.C. 20515
(202) 225-5711
Oregon Office
738 Hawthorne Ave. NE
Salem, OR 97301
(503) 588-9100

Congresswoman Elizabeth Furse
316 Cannon House Office Bldg.
Washington, D.C. 20555
(202) 225-0855
Oregon Office
860 Montgomery Park
2701 NW Vaughn
Portland, OR 97201
1-800-422-4003

Congressman Peter DeFazio
1233 Longworth House Office Bldg.
Washington, D.C. 20515
(202) 225-6416
Oregon Office
Room 287 Federal Bldg.
211 E 7th Ave.
Eugene, OR 97401
(503) 465-6732
Mariana D. Bornholdt
Willamette Valley Chapter

Summer Intern Reports

This is the first in a series of three articles in which NPSO interns discuss their activities during the 1995 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in the Pacific Northwest. Project locations ranged from beaches on the coast to an island in the Columbia River. Interns were jointly funded by NPSO, state and federal dollars, and plan to use their experience to further their careers in botany and biology. Thanks again to NPSO for contributing to botanical education.

Tom Kaye and Bob Meinke
Plant Conservation Biology Program
Oregon Department of Agriculture

Adventures Along the Umpqua Summer Studies of *Kalmiopsis fragrans*

Gravel grinds under the tires as we drive up the road leading to the study sites of *Kalmiopsis fragrans*, located near the North Umpqua River in the Umpqua National Forest outside of Roseburg in Douglas County. The twists and turns of the road conceal the hidden hazards like fallen trees or the tunnel of branches that will whack into anyone foolish enough to leave a window open, and last but not least a fleeing black bear startled by the sight of the truck.

Finally we reach the gate which has been erected to protect a pair of nesting peregrine falcons which, I'm told, can be seen occasionally if you happen to be in the right place at the right time. The gate is a heavy one and tricky, especially for first timers trying to undo the lock, a puzzle which needs to be done one step at a time in the right order or you end up with bruised fingers and a gate that will not open. We, Matt Carlson, Steve Gisler and I, are there to investigate the reproductive system of *Kalmiopsis fragrans* sp. nov., considered a List I threatened species by the Oregon Natural Heritage Program and a sensitive species by the Forest Service. *Kalmiopsis fragrans* is a low growing pink-flowered shrub with yellow stamens that grows on steep, rocky slopes. Working with the Oregon Department of Agriculture's Plant Conservation Biology Program on a grant from the NPSO allowed me the opportunity to

participate in this study.

There were four study sites, one of which got its name, Plethodon Arch, from the number of the little salamanders we found hiding under the rocks the plant grew near. My second day out I got to capture and inspect the small slimy animals whose slightly sticky feet left a strange tickling feeling as they walked across my palm. One of the steeper study sites required anyone who wanted to go there to tightrope across a large fallen log. Luckily, I never had to visit this site, so I can only recount the tales of others as they slipped up the slick wet log while the creek roared underneath.

The reason we were in this seemingly unfriendly environment is that *Kalmiopsis fragrans* is one of a few species of plants that is heterostylous, having two different reproductive morphologies. These two morphs are called "pins" and "thrums." Pins have long pistils and shorter stamens while thrums have longer stamens and shorter pistils. Part of the study involved comparing the differences between the two morphs by measuring stamen and pistil length, pollen size, and floral dimensions. Much of this work was done later under a microscope at Oregon State University, but out in the field we collected flowers as well as made slides of pollen while the unpredictable weather alternately froze or baked us, and even once snowed on us.

Much of the study involved doing cross pollinations between and among the morphs. We used tweezers to pluck the anthers and pollinate other flowers, and we kept track of the number of each type of pollination we performed using strings of different colors tied to the pedicels of the flowers. Anyone stumbling across the sites would have been startled by the sight of white net bags dotting the landscape which we tied to the plants to exclude pollinators.

A minor part of the study, but one of my favorite parts, was the collection (for identification) and observance of pollinators visiting the two morphs. With a net and a jar I was free to snag as many different varieties of the low flying pollinators as I could. Some of them sped by so quickly it was impossible to catch them, but a successful venture was always followed by the delicate business of transfer from net to jar while avoiding the stingers. Besides determining which pollinators were visiting the plants we were also trying to determine if different parts of each morph came into contact with different parts of each pollinator. If this were the case, it would perhaps lend insight

into the significance of the two different morphs and the importance and degree of outcrossing in the species.

Our study of *Kalmiopsis fragrans*, now in its second year, is designed to examine the differences between pins and thrums and provide insight into the advantages and disadvantages of the heterostylous reproductive system. Also, an understanding of the reproductive biology is necessary to develop any plan for protecting populations of this species. Preliminary results from this study indicate that pollinators display no visitation bias between morphs, and that inbreeding among pin and thrum plants does occur. However, although the heterostylous breeding system is not effectively ensuring outcrossing at the pollination level, initial germination tests of resulting seeds suggest that inbreeding may produce non-viable seeds.

This study, as well as others I participated in this summer, allowed me to experience the pleasures and inconveniences of field research, and focus my interests, preparing me for further training in biological studies. Thanks to Tom Kaye, Bob Meinke, Matt Carlson, Steve Gisler, Jenny Tilson, Sue Kolar and Armand Rebischke for a great summer.

Robin Russell

NPSO SYMPOSIUM ALMOST HERE

Well, it is almost here. As you are probably aware the NPSO Symposium is planned for November 15 - 17 at the LaSells Stewart Center on the Oregon State University campus in Corvallis. Registration will begin at 11:00 A.M. on the 15th. All registrants will receive a program which will include abstracts of all the presentations and posters, short biographies of presenters and a banquet ticket. I anticipate an excellent program which should be enjoyed by all.

On the evening of Thursday the 16th, we plan an open house at the OSU Herbarium and a presentation of on the continuing Oregon Flora and Atlas projects. It is an excellent opportunity to become acquainted with the new combined UO and OSU herbarium.

When this was written (Oct. 10) we had 127 paid registrants with a capacity of 200. At the current registration pace, we should be at capacity when this is mailed. If you haven't registered, call Bruce Rittenhouse, 503-756-0100 (days) or 503-888-9328 (evenings) for information.

Bruce Rittenhouse

ARCHIVE COLLECTION FOR NATIVE PLANT SOCIETY BEGINS

A proposal before the State Board of the Native Plant Society of Oregon is beginning to bear fruit. For 34 years members have been walking the wild places of our state, making plant lists and photographing wildflowers. To this point we have had only very loose methods and procedures for keeping a historic record of events, and a collection of photographs, pressed specimens and other artifacts. Most notable is the lack of a procedure for accepting collections of 35 mm slides from donors or from estates. Thus we have missed chances of receiving some personal collections of hundreds of slides of native Oregon wildflowers.

This has now been remedied and two steps have been taken: 1) Provision has been made for the safe storage of collections. 2) An agreement form has been developed, based on Yosemite National Park's Archival Collections, so we may receive donations of materials, including 35 mm slides.

In addition, a policy for the use of these materials is being developed, and we are calling for your input and recommendations. If you have comments, or if you wish to donate slides, please address them to:

Jerry Igo
P.O. Box 603
Mosier, OR 97040
503-478-3293

Education Committee Questionnaire

This survey is designed to help us decide what NPSO members want to see the Society do about education for the public, specifically to define the role of the Education Committee. The questionnaire will be available at the Plant Conservation Symposium in November (probably in the poster viewing room) and we invite you to stop by and share your ideas. If you won't be at the Symposium, please answer the questions and send them to my address at the end of the article.

1. What educational activities do you want NPSO to be involved in? State level? Chapter level?
2. What educational materials does your chapter have, if any?
3. What does your chapter need for educational materials?
4. Are you willing to help this committee by being

a member, chairing it, or donating materials?

Some old and new ideas for the committee.

1. Slide show with script or book on plants of selected areas in Oregon.
2. Plant posters for different chapters like the Siskiyou Chapter poster.
3. Rare plants of Oregon educational packet.
4. Plant conservation and information about the NPSO.

Other ideas? Please feel free to comment on educational issues you think are important to the future of our society.

Please send comments by January 10, 1996 to:
Esther Gruber McEvoy
3290 SW Willamette
Corvallis, OR 97333

Help Halt *Hydrilla*

The opportunity to be the first person to find *Hydrilla verticillata* in the state of Oregon is still available. The question being asked by resource managers is, "Is it out there undetected, or is it not yet introduced?" Your help is needed to find the answer.

Hydrilla's introduction appears likely with current infestations in California and Washington. It is an aquatic plant that can become established in a lake, river or canal. It is an aggressive plant that destroys fish habitat and degrades water quality. *Hydrilla* can also cause flooding by reducing water movement, and it clogs intake and fish screens.

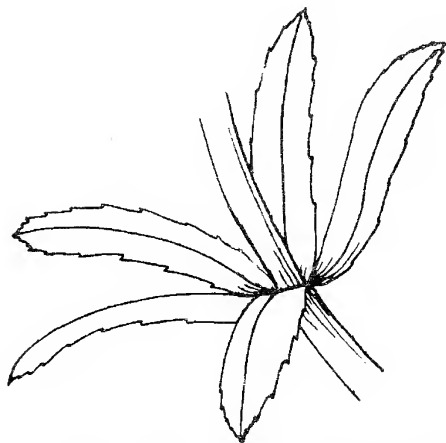
This plant pest spreads from one body of water to another on boats, motors, trailers, fishing tackle and possibly even waterfowl. *Hydrilla* may contaminate water plants sold in nurseries and tropical fish stores. A small fragment of the plant can grow into a large mass in only a few weeks.

To make positive identification check carefully for small spines on the underside of the leaf on the center vein, rough leaves with "sawtooth" edges, peanut sized tubers on the roots, and typically five leaves in a whorl.

The above information can be found, along with color photographs, in the Oregon Department of Agriculture's new brochure, "Help Halt *Hydrilla*." It was compiled by Mark Sytsma of Portland State

University. If you find *Hydrilla*, or need further information, please contact the Oregon Department of Agriculture at (503) 986-4621, or contact your local County Weed Control program.

Mary K. Corp
PNW Exotic Pest Plant Council



(Approximately 2.5x actual size)

Drawing by Oregon Department of Agriculture

NEW ADDITIONS TO OREGON'S THREATENED AND ENDANGERED PLANT LIST

In an effort to more accurately reflect the need for protection of Oregon's rare native plant species, the state list of threatened and endangered species was amended by the Oregon Department of Agriculture on July 12, 1995, resulting in the addition of 42 vascular plants (see Oregon Administrative Rules 603-73-070). These additions (listed below), the first since October, 1989, bring the number of protected taxa up to 61. Lest this be considered a high number, current estimates at Oregon State University place the total number of plant taxa in the state at 4,391 (excluding cultivated taxa). Based on U.S. Fish and Wildlife estimates, Oregon has the fourth highest total of native plant species formally considered for protection among the 50 states.

Many of the plants listed in Oregon are local endemics found nowhere else in the world, and, generally, only species at extreme levels of scarcity qualify for listing as threatened or endangered. Moreover, such species are only listed if they are clearly jeopardized throughout all or most of their

geographic ranges, as determined through field research and consultation with botanists and land managers throughout the state. In addition, hearings are held to solicit public comment on all proposed additions to the state list.

Despite the number of new additions to Oregon's list of protected plants, there will likely be little, if any, economic impact. The occurrences of listed plant species in Oregon are geographically minute, and there are no requirements by the Oregon Legislature or U.S. Congress to protect listed plant species on privately owned properties. Species listed by the Oregon Department of Agriculture are legally protected on all state-managed lands, however. Accordingly, the new additions to the list of threatened and endangered plants are a positive step in the direction of conserving the rare native flora of Oregon.

For additional information on the new additions, watch for the Oregon Department of Agriculture, Plant Conservation Biology Program display at the upcoming NPSO-sponsored symposium, "Conservation and Management of Oregon's Native Flora."

Following is the current, updated list of threatened and endangered plant species on Oregon. Taxa in bold print are the new additions for 1995.

PLANT SPECIES LISTED AS ENDANGERED

Abronia umbellata, subsp. *breviflora* (Standl.)
Munz Pink sand-verbena
***Artemisia campestris* L. subsp. *borealis* (Pall.)**
Hall & Clem. var. *wormskioldii* (Bess.) Cron-
quist Northern wormwood
Astragalus applegatei Peck Applegate's milk-
vetch
***Astragalus mulfordiae* M.E. Jones Mul-**
ford's milk-vetch
***Calochortus coxii* Godfrey & Callahan**
Crinite mariposa-lily
***Calochortus indecorus* Ownbey & Peck**
Sexton Mountain mariposa-lily
Calochortus umpquaensis Fredricks Umpqua
mariposa-lily
***Castilleja levisecta* Greenm. Golden paint-**
brush
***Cordylanthus maritimus* Nutt. ex Benth. subsp.**
***palustris* (Behr.) Chuang & Heckard Salt-**
marsh bird's-beak
***Delphinium leucophaeum* Greene White**
rock larkspur
***Delphinium pavonaceum* Ewan Peacock**
larkspur

Erigeron decumbens Nutt. Willamette daisy
Fritillaria gentneri Gilkey Gentner's fritillary
Haplopappus radiatus (Nutt.) Cronq. Snake River goldenweed
Ivesia rhypara Ertter & Reveal var. *rhypara*
 Grimy ivesia
Lilium occidentale Purdy Western lily
Limnanthes floccosa How. subsp. *grandiflora*
 Arroyo Big-flowered wooly meadowfoam
Lomatium bradshawii (Rose) Math. & Const.
 Bradshaw's desert-parsley
Lomatium cookii Kagan Cook's desert-parsley
Lomatium erythrocarpum Meinke & Const.
 Red-fruited lomatium
Lupinus cusickii Wats. Cusick's lupine
Mentzelia mollis Peck Smooth mentzelia
Mirabilis macfarlanei Const. & Rollins
 Macfarlane's four-o'clock
Plagiobothrys hirtus (Greene) Johnst. Rough allocarya
Plagiobothrys lamprocarpus (Piper) Johnst.
 Shiny-fruited allocarya
Ranunculus reconditus Nels. & Macbr.
 Dalles Mountain buttercup
Silene spaldingii Wats. Spalding's campion
Stephanomeria malheurensis Gottl. Malheur wire-lettuce
Thelypodium howellii Wats. subsp. *spectabilis*
 (Peck) Al-Shehbaz Howell's thelypody
Trifolium owyheense Gilkey Owyhee clover

PLANT SPECIES LISTED AS THREATENED

Amsinckia carinata Nels. & Macbr. Malheur Valley fiddleneck
Aster curtus Cronquist White-topped aster
Aster vialis (Brads.) Blake Wayside aster
Astragalus collinus Dougl. ex Hook. var. *laurentii* (Rydb.) Barn. Lawrence's milk-vetch
Astragalus diaphanus Dougl. var. *diurnus* (Wats.) Barn. South Fork John Day milk-vetch
Astragalus peckii Piper Peck's milk-vetch
Astragalus sterilis Barn. Sterile milk-vetch
Astragalus tyghensis Peck Tygh Valley milk-vetch
Botrychium pumicola Cov. in Underw.
 Pumice grape-fern
Calochortus howellii Wats. Howell's mariposa-lily
Eriogonum chrysops Rydb. Golden buckwheat
Eriogonum crosbyae Reveal Crosby's buckwheat
Erythronium elegans Hammond & Chamb.

Coast Range fawn lily
Gratiola heterosepala Mason & Bacig.
 Boggs Lake hedge-hyssop
Hackelia cronquistii J.L. Gentry Cronquist's stickseed
Hastingsia bracteosa Wats. Large-flowered rush lily
Lepidium davisii Roll. Davis's peppergrass
Limnanthes floccosa How. subsp. *pumila* (How.) Arroyo Dwarf meadowfoam
Lomatium greenmanii Mathias Greenman's desert-parsley
Luina serpentina Cronq. Colonial luina
Lupinus sulphureus subsp. *kincaidii* (Smith) Phillips Kincaid's lupine
Mentzelia packardiae Glad Packard's mentzelia
Microseris howellii Gray Howell's microseris

Mimulus patulus Penn. Stalked-leaved monkey-flower
Oenothera wolfii (Munz) Raven, Dietrich & Stubbe Wolf's evening-primrose
Phacelia argentea Nels. & Macbr. Silvery phacelia
Pleuropogon oregonus Chase Oregon semaphoregrass
Senecio ertterae Barkley Ertter's senecio
Sidalcea nelsoniana Piper Nelson's checker-mallow
Silene douglasii Hook. var. *oraria* (Peck) C.L. Hitchc. & Maguire Cascade Head catchfly
Thelypodium eucosmum Robins. Arrow-leaf thelypody

Steven Gisler

Oregon Plant Atlas Meetings

Two orientation meetings will be held for people wishing to adopt-a-block or be regional coordinators for the Oregon Plant Atlas Project. They will immediately follow the symposium, "Conservation and Management of Oregon's Native Flora," in Corvallis in November. The Atlas orientation meetings will be as follows:

Friday, November 17, First Interstate Room, LaSells Stewart Center --
 1:30 - 2:30 Adopt-a-block orientation
 2:30 - 3:30 Regional Coordinator orientation.

If you can't attend, but want to participate, an orientation packet will be mailed. E-mail Bruce Newhouse at 541.343.2364, newhouse@etn.org. Or call (503) 343-2364.

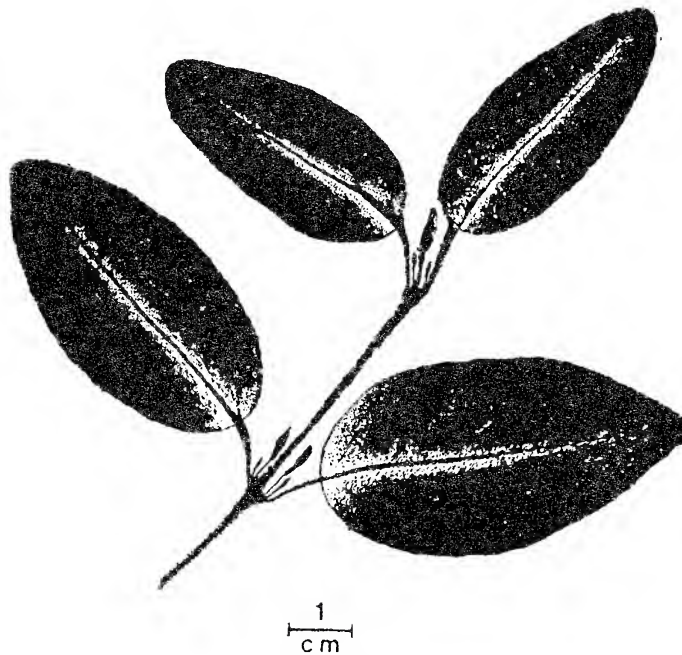
The Plant Puzzle

Sponsored by the Siskiyou Chapter

Can you name this native shrub? The first person to submit the correct scientific name will win a prize.

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., # 1
Corvallis, OR 97330



Carol Savonen of Philomath won the August puzzle. She was first to name native plants in five families found in both Klamath and Lincoln counties: *Adenocaulon bicolor* (trailplant), *Aquilegia formosa* (columbine), *Calypso bulbosa* (calypso), *Dicentra formosa* (bleeding heart) and *Equisetum arvense* (horsetail).

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DIRECTORS (to 6/97) Dave Dobak, Rhoda Love, Kareen Sturgeon
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PRESIDENT Michael Igo. P.O. Box 603, Mosier 97040;
IMMEDIATE PAST PRESIDENT . . . Bruce H. Rittenhouse. 550 Fillmore, Coos Bay, 97420-3167; w:756-0100; h:888-9328
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TREASURER Jean M. France. 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) . . . Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, 97405-4165; 343-2364
HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
MID-COLUMBIA Allen Bell. P.O. Box 680, White Salmon, WA 98672; 509-493-4212
NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
UMPQUA VALLEY (Roseburg) . . . Richard H. Sommer.
WILLAMETTE VALLEY (Salem) . . . Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

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Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. . . \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

In this issue

We Welcome New Members.	124
Congress and the Environment: It's Not Too Late -- Mariana D. Bornholdt.	124-125
Adventures Along the Umpqua -- Robin Russell.	125-126
NPSO Symposium Almost Here -- Bruce Rittenhouse.	126
Archive Collection for Native Plant Society Begins -- Jerry Igo.	127
Education Committee Questionnaire -- Esther Gruber McEvoy.	127
Help Halt <i>Hydrilla</i> -- Mary K. Corp.	127-128
New Additions to Oregon's T&E Plant List -- Steve Gisler.	128-129
Oregon Plant Atlas Meetings -- Bruce Newhouse.	129
The Plant Puzzle.	130

NATIVE PLANT SOCIETY OF OREGON

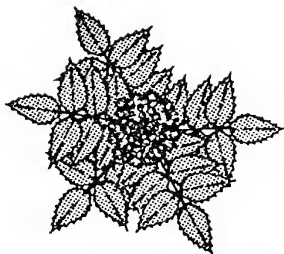
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or correspond directly with the Officers and Committee Chairs listed on the inside back page.

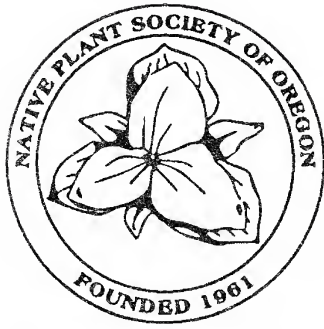
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Jan Dobak, Membership Chair
2584 NW Savier St.
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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It's Renewal Time

The NPSO membership year is January to December. Now is the time to renew. A remittance envelope is in this issue of the Bulletin. Or use the membership form on the inside back page.

NPSO brings you field trips, programs, classes, the monthly Bulletin and the annual Kalmiopsis.

This is also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for summer research projects in western Oregon, and is a matching grant in cooperation with The Nature Conservancy. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university. Contributions can also be made to the NPSO general fund.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of the NPSO.

State News

Jan. 20, Sat.

State Board Meeting: 10 A.M. - 4 P.M. Hosted by the Emerald Chapter in Eugene, Lane Community College Science Building, room 109. (Same place as last year.) Directions: I-5 to 30th Ave. (LCC exit) just south of Eugene. Go 1/4 mi. west, turn left on Eldon Shaeffer Dr., and proceed 1/4 mi. up hill through S curve to upper parking lot. Science Building is last on right. Main topic will be the adoption of the annual budget.

Chapter News

Blue Mountain

Dec. 4, Mon.

Meeting: 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Presentations and discussions regarding the NPSO Symposium in November.

Corvallis

- Dec. 11, Mon. **Meeting:** 7:30 P.M. Holiday potluck and slide show. Take ten of your favorite slides and a dessert to share, to the McEvoy's home, 3290 SW Willamette St. For more information call the McEvoy's at 754-0893.

Emerald

- Dec. 18, Mon. **Meeting:** 7 P.M. This is the annual Christmas potluck and slide show. Island Lakes Condominium clubhouse, 1980 Lake Isle Dr., off Goodpasture Island Rd., across from K-Mart. Clubhouse parking is limited, but there is ample parking in K-Mart lot. Bring a light potluck dish and 12 or so of your favorite plant slides from this year.

High Desert

Meeting: No meeting in December.

- Jan. 23, Tues. **Meeting:** 7:30 P.M. Central Oregon Community College Herbarium. We will meet in room 217, Ochoco Hall, and Marge Ettinger will share some of the exciting things she has done with the herbarium, and her work at the Warm Springs Reservation.
- Feb. 27, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Professor Rick Dewey of COCC will speak to us about the mosses of central Oregon.

Mid-Columbia

- Dec. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Ron Graves, District Manager, Wasco County Soil and Conservation District, will talk about the restoration project in the Buck Hollow Watershed.
- Jan. 3, Wed. **Meeting:** 7:30 P.M. Mosier School. Jerry Igo recently completed a plant survey for ODOT, and will give a slide and video presentation, "Rare plants on our roadsides," on that survey.

North Coast

Meeting: There will be no meeting in December. Call Christine Stanley, 436-0161, for more information.

Portland

- Dec. 12, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Member slide night with show and tell. Bring up to 12 of your finest slides of plants or plant locales. (If planning to show slides, please call Maya Muir, 786-2831.) Projector and screen will be provided. Room open at 6:30 for potluck snacks and socializing.

Siskiyou

- Dec. 14, Thurs. **Meeting:** 7:30 P.M. A special holiday dessert potluck meeting at Julian Battaile's house, 1216 Tolman Creek Rd. in Ashland. John Irwin, an exceptional photographer, will treat us to a wildflower slide extravaganza.

South Coast

For information on South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

Dec. 14, Thurs. **Meeting:** 6:30 P.M. Potluck at Hillcrest Vineyard. Bring your favorite plant slides, photos or specimens. Directions: From exit 125 on I-5, go west on the following roads: Garden Valley, Melrose, Doerner, then north on Elgarose to the Vineyard. Follow directional signs, or call 541-673-3709.

Willamette Valley

Meeting: No meeting in December.

William Cusick

Dec. 13, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. After a short business meeting, Andy Huber, manager of Grande Ronde Overlook Wildflower Institute Serving Ecological Restoration (GROWISER) will do a slide presentation to share his experience with protecting and reintroducing wildflowers. For information call Barbara Russell at 963-7495.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.

All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints useable.

Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.

For further details consult editor

ORIGINALS: Submissions are not returned, unless requested.

Summer Intern Reports

This is the second in a series of three articles in which NPSO interns discuss their activities during the 1995 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in the Pacific Northwest. Project locations ranged from beaches on the coast to an island in the Columbia River. Interns were jointly funded by NPSO, state and federal dollars and they plan to use the experiences to further their careers in botany and biology. Thanks again to NPSO for contributing to botanical education.

Tom Kay and Bob Meinke
Plant Conservation Biology Program
Oregon Department of Agriculture

FRASERAS IN THE FOREST: MONITORING GREEN GENTIAN POPULATIONS IN SOUTHWESTERN OREGON

Fraseria umquensis, variously known as *Swerthia umquensis*, green gentian and Umpqua swertia, is a category 2 candidate for listing under the federal Endangered Species Act, as well as a candidate for listing by the state of Oregon. As part of my work as a NPSO/ODA summer intern, I was involved in the establishment of long-term plots and the collection of data in an effort to monitor long-term population trends of this species.

Plots were established at three sites in the Siskiyou Mountains north of the North Fork of Silver Creek. Plot establishment consisted of superimposing a rectangular grid over the designated population, thus dividing a fairly large and irregularly shaped unit into small, manageable pieces. Data collection included counting the total number of basal rosettes, and recording the phenological state of each rosette within the plot.

Thanks to the advice and assistance of botanists from both the Medford District BLM and the Siskiyou National Forest, we quickly established plots and collected data at the first site, leaving time to do some great botanizing in the area. Among the many delights we observed were the

Bolander's lily, *Lilium bolanderi*, with its beautiful red perianth and wavy-margined leaves, and the Vollmer's lily, *L. pardalinum* var. *vollmeri*, growing near enchanting seeps and along the margins of small streams.

The next day we hiked to a higher elevation population, situated on a small ridge at about 4,500 feet. We were rewarded with a beautiful view of the surrounding ridges, most of which, including the one we were standing on, were scarred by recent lightning-caused fires. Many wonderful plants were also there to greet us, including a shrubby oak with distinctly serrate leaf margins (*Quercus sadleriana*), the weeping Brewer's spruce (*Picea breweriana*), and ground-cones (*Boschniakia* sp.).

After spending the better part of the day scouring the ridge line for *Fraseria*, we eventually located some small clusters of plants, and were ready to begin establishing plots. The soft clouds which had filled the valleys below in the morning had been building all day to magnificent thunderheads, and we listened with interest to reports via a Forest Service two-way radio of lightning storms in northern California headed northward. From one Forest Service district after another came reports of lightning strikes, as we tracked the storm moving quickly in our direction. Discretion being the better part of valor, we decided to head for lower ground as the wind picked up and lightning began striking the surrounding ridges. This seemed the most prudent course of action, especially as the task at hand involved pounding six foot lengths of metal pipe (potential lightning rods) into the ground to establish plot corners. We scurried off the ridge, the rain arriving in earnest just as we reached our vehicles. Waiting out the storm at the saddle, we were treated to a lovely electrical display, and the chance to see Mother Nature in one of her more exciting moods.

The following dawn was beautiful, with the same billowy clouds in the valleys making the mountain tops look like islands in a sea of cotton candy. We finished the ridge plots, then hustled to the final site near the saddle, feeling confident that we could easily recoup the time used (certainly not wasted) storm watching the previous day. All thoughts of finishing early disappeared, however, as we looked at the last remaining plot. While the work was essentially the same from location to location, the previously sites were fairly open, with relatively few individual rosettes. The final location was long and narrow, the *Fraseria* growing densely along an old road, and slowly being

crowded out by a dense jumble of young "dog hair" trees and manzanita bushes. Awesome feats of gymnastics were required to accomplish the same tasks as before. With one person recording data, and another moving Douglas fir boughs out of the way, the third was able to balance on one foot while standing on a fallen log, lean under the "Doug-fir" and over the manzanita, and count plants! As the late afternoon shadows began to fill the valley, we finally finished our last measurements, and headed back to our camp, satisfied, albeit a bit scratched and scuffed up, with a job well done.

I'd like to thank the Native Plant Society of Oregon and the Oregon Department of Agriculture for making this internship possible. I found it a unique and rewarding opportunity to gain valuable field experience in Plant Conservation Biology. Special thanks go to Tom Kaye and Bob Meinke and the entire 1995 field crew. Their encouragement and laughter made this experience an especially enjoyable one.

Susan Kolar

BULLETIN MAILING COMMITTEE

Marvel Gillespie, April Fong, Barbara Linden, Bob Powne and Susan Yamanaka have volunteered to take on the responsibility for the monthly mailing of your Bulletin. Many thanks to them!

GIFTS FOR GARDENERS

Plants, books, garden gifts, celebrity decorated trees. December 2, 9 A.M. to 5 P.M., World Forestry Center, Portland. Call 636-4112 for more details. Proceeds to benefit Hoyt Arboretum and the Berry Botanic Garden.

EXPERT SYSTEM PLANT KEYS

This article is to expand on the note in the April issue about computer plant identification keys. In the last few years, computer database programs known as "expert systems" have been developed which sort and find data in a particular way. More recently, at least three specialized programs of this type have been developed for biological/botanical data. They allow a person to enter the characteristics of a plant specimen, and match

them with the species that fits those characteristics. At this time, the most effective and easiest to use is the XID Identification System, developed by Richard Old, Ph. D., a botanist in Pullman, Washington. The program will run on any IBM compatible computer, although it runs best on a 386 or higher. This program is ideally suited for field work, as it will run on a hand-held "palm-top" computer. A version which will run in Windows will be available in about a year.

In the past year, I have been using this system to create plant identification keys for this area. So far, keys have been completed for the Umatilla National Forest, the Wallowa-Whitman National Forest and the Wallowa Mountains/Eagle Cap Wilderness. By next spring, the data will have been entered for the characteristics of all the plants in Oregon, Washington and Idaho, which will allow the creation of separate keys for any given area or plant list in the three state region.

The following is a description of how the program works. To identify a plant, the user first selects a menu of types of plant characteristics (such as leaves, stem, inflorescence, flower or fruit). The user then selects those characteristics which best describe the plant to be identified. The computer eliminates from consideration all plants which do not match those characteristics, and also eliminates those menu choices which would not help to distinguish among the remaining species. The user then goes to another menu and makes another selection, and so on. At any point, the user may ask the computer to analyze the remaining species and provide a list of the characteristics which are easiest to identify and will most effectively separate among the remaining species. The user may select from that list or go to a different menu. In addition, one may call up an alphabetized list of the remaining species (in either common or scientific name), including the page numbers of references (such as Hitchcock or Jepson) that describe the plants. When all remaining species are of the same family or the same genus, the computer identifies that family or genus. When all species but one have been eliminated, the plant has been identified. If uncertain, the user may check against the references listed on the screen, and may check for errors by calling up a list of the characteristics that were entered by the user.

Technical botanical terms are kept to a minimum, and help screens are provided for all menu items. The help screens include definitions of terms, and a description of the habitat and geographic range for each plant. Graphics with line drawings to ac-

company the definitions of terms (such as leaf shapes and inflorescence types) are being added, and will be available by next spring. The program has the capability of adding line drawings and/or color photographs of the plants; however, this would take up considerable storage space in the computer.

The traditional dichotomous keys we have struggled with are very ingenious, given the limitations of pen and paper with large volumes of data. They also demand great skill to create and much practice and patience to use. A frequently frustrating experience with dichotomous keys is being expected to make a choice in the key when the necessary part of the plant (example: fruit or flower) is not present. In an expert system key, the user is simply asked to describe the features that are most obvious about the plant. If a plant characteristic cannot clearly be defined, such as whether a leaf is best described as lanceolate or linear, the user may tell the computer to include all species that have either description.

With a little practice, identifying a plant takes one or two minutes. In the Umatilla National Forest program, with 1,357 plants, it usually takes only four or five entries to identify a plant. This speed and simplicity is due to the computer identifying the species that has a particular combination of characteristics. For example, in the Umatilla NF there are 85 plants with bilabiate/two-lipped flowers, 260 plants with pink to red flowers, and 105 with blue flowers. However, there is only one plant with bilabiate flowers that are both pink and blue -- *Collinsia parviflora*.

The keys include fairly comprehensive data on each species in order to provide the user with the widest possible range of characteristics from which to choose. The keys are separated into five sections: flowering plants including trees and shrubs (except Asteraceae), Asteraceae, conifers, grass-like plants, and spore-bearing plants. In the section for flowering plants, for example, there are over 85 different menus of characteristics.

For additional information, including costs, I can be contacted at 17 SW Frazer, Suite 28, Pendleton, OR 97801. Telephone: (503) 278-2222 (O), 276-5547 (H). FAX 276-8405, or dbarnes@ed-netl.osl.or.gov.

Bruce Barnes
Flora ID Northwest

SUSTAINABLE FORESTRY BALLOT INITIATIVE

A grass-roots campaign is underway to place an initiative on the ballot in the next election mandating sustainable forestry practices. The initiative would prohibit clear cutting on private, state and federal land and ban the accompanying use of chemical herbicides and pesticides. (While Oregon could not actually prohibit clear cutting on federal land, such a measure would act as a strong request to the Feds.)

The measure is sponsored by Oregonians for Sustainable Forestry (OSF) and backed by the Forest Conservation Council. The Native Forest Council, Pacific Rivers Council, the EcoForestry Institute and Lincoln City Water Watch have already given their endorsements.

The initiative stresses that labor-intensive technologies which would replace clear cutting would create new jobs, and that the chemicals used with clear cutting have played a significant role in the decline of fish and of water quality. NPSO members should have no trouble seeing that alternatives to clear cutting are kinder to flora in the understory.

OSF plans to gather all signatures by volunteers. More petitioners are needed, and financial contribution are welcome. Anyone interested should contact Oregonians for Sustainable Forestry at 85560 Svarverud Road, Eugene, OR 97405, or call (503) 344-5406.

Maya Muir
Portland Chapter

A
bies
grandis
amabilis
lasiocarpa
Picea glauca
Picea sitchensis
Tsuga heterophylla
Pseudotsuga menziesii
Pinus
albic
aulis

STRAWBERRY MOUNTAINS FOR *CAREX*

(Prologue: Trying to use a dichotomous key on monocots is almost as difficult as trying to wrest laurels¹ from a ... Whoa! This is already going in too many directions, and I have a long tale I want to get behind me ...)

The *Carex* Working Group followed their happy hearts and innocent intentions to the striking Strawberries from the 13th to the 17th of August. The Strawberry Mountains are part of the Blue Mountain complex in northeastern Oregon. They are located between the Ochoco and Wallowa ranges in Grant County just southeast of John Day. Venturing there in search of wild and elusive Strawberry carices were Peter Zika, Barb Wilson (and her 12-year-old nephew and sedgehead wanna-be, David Williams), Jim Oliphant, and Bruce Newhouse. They caught up with Danna Lytjen and Nick Otting at the cozy Starkey Guard Station cabin.

The trip commenced with gaping at, admiring, fondling and photographing a recently rediscovered relict population of *Carex macrochaeta*. The group witnessed the blatant inactivity of this small colony hanging loose in the spray zone of an unnamed dribble near Wahkeena Falls in the Columbia Gorge. Not seen in the Gorge for decades, this population was located again in 1994. In Oregon, it is known only from this site and from a north coastal location. PZ had returned from Alaska the night before the trip began with a smuggled *C. macrochaeta* specimen for comparison, but in this writer's opinion² the Oregon material was clearly the more handsome.

Zippering ever eastward, the sedgeaholics caught a glimpse of Multnomah Falls,³ and later, they botanized the Boardman Botanical Wayside (the lawn and irrigation ditch at the Boardman rest stop on I-84). This stop produced unusual grasses,

rushes and gazes from onlookers.⁴ Plants were pressed, the accelerator depressed, and after only a few more hours, the group arrived at Starkey in time for a late dinner and early sleep under a zillion stars -- and the gentlest touch of frost.

While buttering our⁵ morning buns, slurping java, and reviewing geology maps, we packed for the Strawberry Mountains. We arrived at the south-east edge of the wilderness that afternoon, and botanized the trail into High Lake (literally, for *Isoetes* sp.). Along the trail we admired the eye-holding *Epilobium obcordatum*, the subtle *Poa bolanderi* (an uncommon annual), and a lush *Athyrium alpestre* population on a boulder/talus slope. Seepy meadows proved to be rich *carecta*,⁶ providing new names for the Grant County list.

We split into three groups the following day, with BW and JO driving shuttles around to the north side to meet the rest of us at our next campground. It was an amazing off-trail day on the ridgetops as we traversed the wilderness from south to north, and we were caught by a summer shower while picking our way down through steep talus. We wearily dragged our bagged quarries (sedges and a number of other vegetable appetizers) into camp for an evening of swapping stories about who found the largest perigynia and such.

The next day led us to another part of the Strawberries: Pine Creek, just east of the northwest corner. JO's serpentinite prediction was eerily accurate, and one member of the group impulsively regurgitated fond memories of Josephine County. *Calochortus macrocarpus* graced the roadside in late season pulchritude, and we were pulled in further. As we piled out of our vehicles and into a moist drainageway, a unique experience befell us -- sort of a botanical catatonia. The group discovered a sedge which was not identifiable at first or second glance. Shyly noting the sexual monotony of the colony,⁷ we rose above our social training

1. At some point it may be worth noting that laurels are hardy in mild climates.

2. Which, I might add, has been correct at times in the past.

3. Near the top of the Falls they noticed this rather large -- well, bus-sized, actually -- piece of rock that looked restless. Soon after their visit it changed its altitude [sic], and has alleviated the discomfort it felt [sic]. Rumor has it that the Chinook word "Multnomah" actually means "Rock."

4. For the sake of clarity (otherwise unknown in this report), we were not rushed by onlookers. They were probably kept at bay by our enthusiastic interest in nature.

5. Subtle shift in person occurring here ...

6. *Carectum*: a place where sedges grow. (Plea to the reader: The CWG is always seeking to expand its sedge lexicon with obscure terminology. Send it our way!)

7. Hopefully, you weren't looking for something interesting in this footnote. (Author's note to himself: Be extra careful here ...)

and acknowledged the subtle, yet unmistakable dioeciousness⁸ of the situation. Because not many sedges are of this persuasion (i.e., evolving to live in "two houses"), taxonomic options were limited, and all sedge heads turned hopefully toward PZ's strawberry-bearded visage. His humble expertise assuaged our apprehension with an annotated acclamation of "*Carex scirpoidea*!"⁹ This species (in the wild) was new to the life list of almost everyone else present and we delighted in finding more and more of it. In the next few hours we learned that it is a dominant along the upper reaches of Pine Creek and in the sedge-rich and rush-lush headwater meadows. A highlight for BW was the discovery that "true" *Festuca idahoensis* grows on dry serpentine soils in this area.

After our day of hiking and judicious collecting in the Pine Creek drainage, we pooled and tallied¹⁰ our way home. We saw 30 species of *Carex* (8 of which are new, vouchered Grant County records), and collected specimens and recorded numerous other site locations for many species. We also tested the new Atlas Project plant list format by completing two comprehensive lists.

The CWG recommends the Strawberry Mountains for anyone searching for botanical adventure. Thanks are due to the Native Plant Society of Oregon for its support of CWG research activities. Call the CWG if you are interested in sedges, at 737-4106 (OSU Herbarium). Next summer, we hope to do two trips: the Calapooya Mountains and Cascades of southern Lane and northern Douglas counties, and Lake and Klamath counties!!!

Submitted by Bruce Newhouse,
Emerald Chapter,
on behalf of the CWG

8. (Then maybe you need a new dictionary!)

9. Which, in all frankness, really isn't much more scirpoid than any other *Carex* ...

10. Not to be confused with another popular English pastime, "Sheeps and Tides," ... although drowning in numbers is common to both.

EXTINCTION OF THE ESA BY ANY OTHER NAME IS STILL EXTINCTION!

Senator Dirk Kempthorne's (R - ID) ESA Reauthorization bill, which he plans to introduce in the next few weeks, joins the Young-Pombo bill (HR 2275) as another lethal assault on the Endangered Species Act. An outline of the bill, recently released, reveals that this bill will eliminate the following ESA protections of fish, wildlife and plant resources.

1. The fundamental goal of the ESA -- recovery -- is eliminated, and the Secretary of Interior is given discretion to choose "conservation objectives" for species, other than recovery. This will mean extinction for hundreds of species that are declining because of habitat destruction.

2. It eliminates Section 7 consultation requirement so an agency can simply make a self-serving determination that its activities are consistent with the conservation plan for the species, without review by the U.S. Fish and Wildlife Service.

3. Essential habitat protections on private lands are eliminated. This overturns the Supreme Court's recent Sweet Home decision, which found in favor of habitat protection on private land.

4. Species protections on federal lands are drastically weakened, overruling the TVA v. Hill Supreme Court decision. Federal agencies could avoid compliance with the ESA if species protection goals conflict with other statutory goals, such as "multiple use" of federal lands.

5. The bill precludes the Secretary of the Interior from taking actions to protect and recover aquatic species if such actions limit water use, such as by agriculture or industry.

6. The bill disregards scientific findings and requires federal agencies to ignore warnings of ecosystem decline, allowing unfettered exploitation of natural resources to proceed. It states, "Extinction is a natural phenomenon over which people have limited control."

HELP SAVE AMERICA'S PRECIOUS NATIVE PLANTS, FISH AND WILDLIFE! TELL YOUR SENATORS TO OPPOSE SENATOR KEMPTHORNE'S ESA REAUTHORIZATION BILL.

Mariana D. Bornholdt
Willamette Valley Chapter

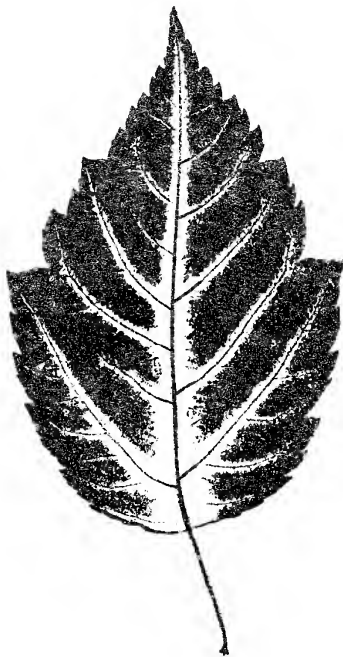
The Plant Puzzle

Sponsored by the Siskiyou Chapter

Can you name this native shrub? The first person to submit the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330



1
cm

Ray Prag of Williams was the first to correctly answer the November puzzle: *Shepherdia canadensis*, buffalo-berry or soapberry.

BIDDY - BIDDY

Biddy-biddy; what a cute little name for a cute little plant! Or if you prefer, call it piripiri, or bidgee-widgee. Leaves are rich glossy green, slightly reminiscent of beach strawberry but pinnately compound. The trailing stems hug the ground, as a good ground cover should. The blossoms, though not colorful, are fluffy little globes, held three or four inches above the leaves. And when they mature, the seeds, armed with barbed bristles, stick to your socks, your shirt, your dog, your sheep or any other textural material they contact. When I first saw it in the lawn of my place of employment, I assumed it had been planted as ground cover, and had spread out of its allotted area. There I dropped it, since my interest is in native species almost to the exclusion of ornamentals.

However, for David Pivorunas, botanist at Gold Beach Ranger District, there was more to learn here. He found that biddy-biddy is known as *Acaena anserinifolia* (J.R. & G. Forst) Druce to the California Department of Food and Agriculture. CDFA rates it an "A" Pest. It is found in several California counties, including Humboldt. The Jepson Manual lists *A. novae-zelandiae* Kirk, and indicates that the name *A. anserinifolia* has been misapplied. Biddy-biddy is native to eastern Australia and New Zealand and has been naturalized from gardens in Britain and Ireland. In sheep country it is an economic pest, as it reduces the value of the fleeces.

Biddy-biddy has spread from the site where I first noticed it to a neighboring lawn that was mowed with the same lawnmower. It is encroaching on a parking area where the numerous seeds can be moved by tires and runoff. Germination may be as high as 95%, according to CDFA.

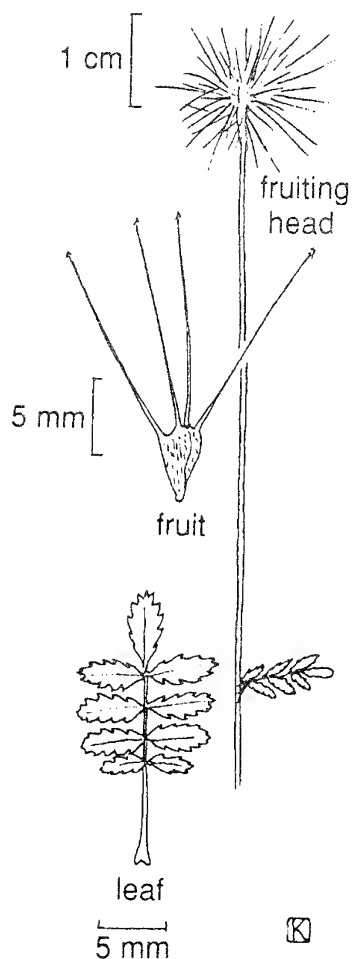
David also noticed several cans of this plant for sale at a nursery. The nursery owner had grown them from seed. When informed about the potential for this plant to become a pest, he eliminated them from his stock.

Have you seen this plant, either in a nursery or as an ornamental plant, or naturalized? The only site we know is at Gold Beach, Oregon. However, we think there is potential here for another miserable exotic to displace native plants and become a general nuisance. Biddy-biddy may eventually be proposed as a candidate for the Oregon Department of Agriculture's list of noxious weeds. If

you know this plant, and think it should be listed as a noxious weed, please contact Dennis Isaacson, ODA, 635 Capitol St. NE, Salem, OR 97310-0110. If you have other distribution information, please contact Veva Stansell, PO Box 959, Gold Beach, OR 97444.

Veva Stansell
Siskiyou Chapter

Illustration from: The Jepson Manual: higher plants of California. James C. Hickman, ed. University of California Press, c1993.



A. novae-zelandiae

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett, \$1, minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel, parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 609 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455. \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1995. Available from Jan Dobak, 2584 NW Xavier St., Portland, OR 97210-2412. \$2 each.

Two roads diverged in a wood, and I --
I took the one less traveled by,
And that has made all the difference.

STATE OFFICERS

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 TREASURER Jean M. France. 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. 2525 Potter, Eugene, 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Allen Bell. P.O. Box 680, White Salmon, WA 98672; 509-493-4212
 NORTH COAST Christine Stanley. P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk. 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) Richard H. Sommer.
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell. 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr., Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton. 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma. 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Reibotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

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In this issue

Fraseras in the Forest -- Susan Kolar.	136 - 137
Bulletin Mailing Committee.	137
Gifts For Gardeners.	137
Expert System Plant Keys -- Bruce Barnes.	137 - 138
Sustainable Forestry Ballot Initiative -- Maya Muir.	138
Strawberry Mountains For <i>Carex</i> -- Bruce Newhouse.	139 - 140
Extinction of the ESA by Any Other Name Is Still Extinction -- Mariana D. Bornholdt.	140
The Plant Puzzle.	141
Biddy-biddy -- Veva Stansell.	141 - 142
NPSO Items For Sale.	142

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General Business Address: P. O. Box 902, Eugene, OR 97440
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